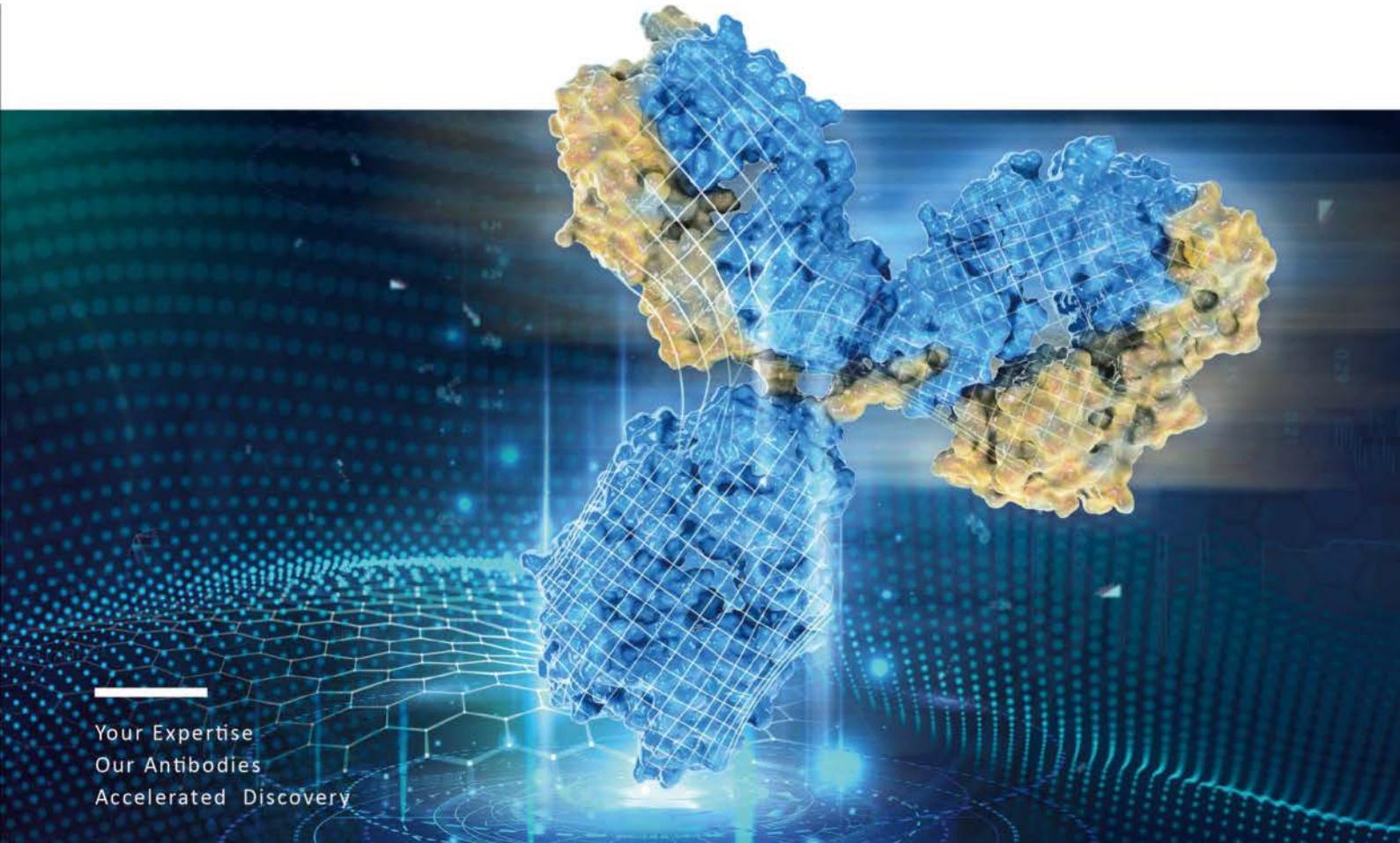




Recombinant Antibodies



Quality Antibodies · Quality Results

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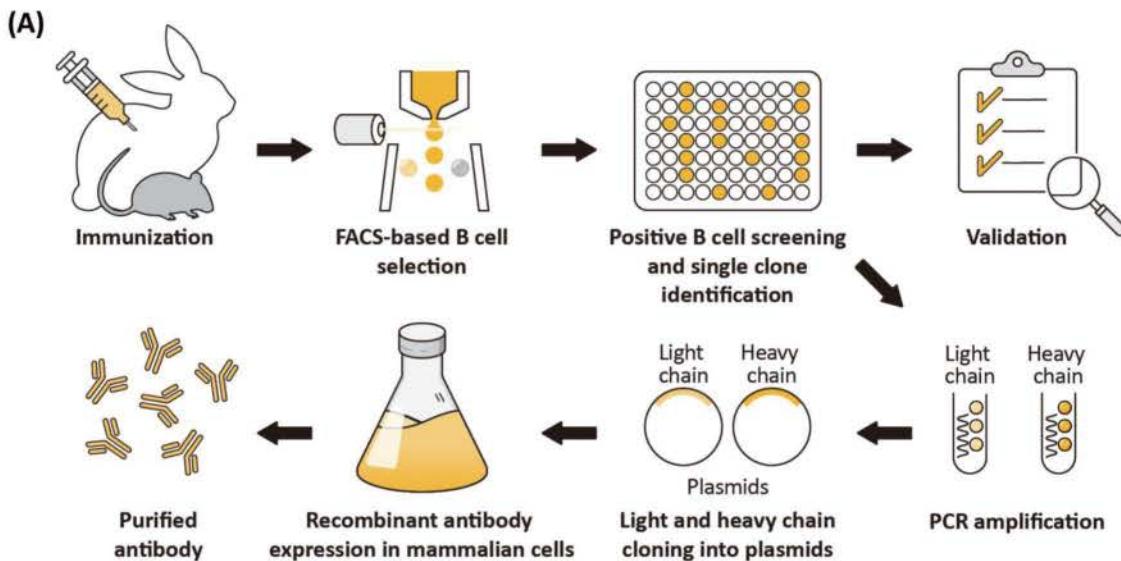
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Introduction

1. What is a recombinant antibody?

A recombinant antibody (rAb) is generated from the cloned, *in vitro*-expressed heavy and light chains of a selected monoclonal antibody obtained through classical hybridoma methodology, display strategies alone or in combination, sorted single B cells from immunized animals, or by one of many other techniques. The fact that it is cloned means the rAb is defined by its primary sequence, which can be engineered to optimize affinity and be expressed in different binder formats. The numerous advantages of rAbs have been well-documented, with consistency of performance being of paramount significance.

GeneTex's rAb protocol employs a multi-parameter FACS-based approach to isolate antigen-specific IgG+ memory B cells from an immunized animal, with subsequent cloning of the antibody variable-region genes into an IgG backbone and expression in mammalian cells (Fig. 1) (1). This protocol is very rapid and can be completed in weeks, and also affords the opportunity to identify antibodies with diverse capabilities in various applications. Importantly, it allows cloning of the heavy and light chains from the same B cell, thereby preserving natural pairing. And once cloned, the supply of a given rAb is inexhaustible with exceptional reproducibility.



(B)

Why recombinant antibodies?



Figure 1. (A) The GeneTex recombinant rabbit monoclonal antibody workflow (Starkie et al. (2016)). (B) Advantages of recombinant antibodies.

Introduction

One outstanding advantage of this protocol is that the suitability of the individual clones for desired applications can be tested during screening. For example, GeneTex's Iba1 rabbit recombinant antibody [HL22] (GTX635363) detects Iba1, a protein commonly used as an immunohistochemical marker of both quiescent and activated microglia. In its development and production, both paraffin- and frozen-IHC analyses (IHC-P, IHC-Fr, respectively) were conducted in the first screening process to identify the best clones for these applications, as shown below (Fig. 2). The clones were compared to a highly cited, market-leading commercial antibody to gauge their performance. This strategy provides us with valuable perspective on a clone's market competitiveness during development. In addition, our recombinant antibody team has successfully expressed the antigen-binding regions of this antibody in the context of both mouse and rat IgG backbones, thus extending flexibility for multiplexed staining.

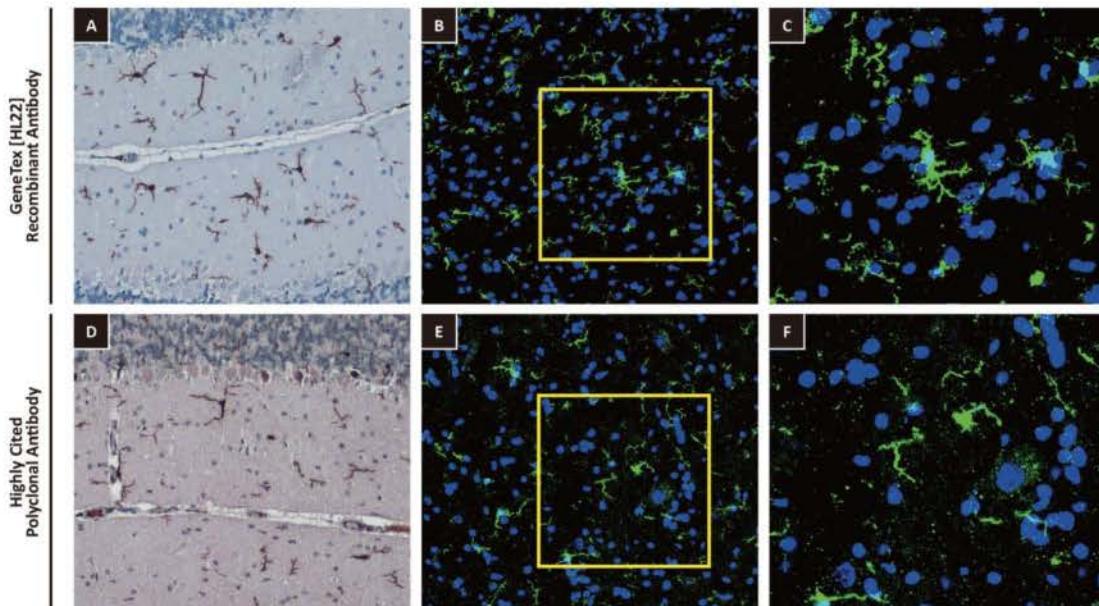


Figure 2. GeneTex's recombinant rabbit monoclonal Iba1 antibody [HL22] (GTX635363) is superior to a competitor's highly cited rabbit polyclonal antibody for both IHC-P (panels A vs. D) and IHC-Fr (panels B, C vs. E, F).

Introduction

Another new recombinant rabbit monoclonal reagent is GeneTex's RAS (G12D mutant) antibody [HL10] (GTx635362) (Fig. 3). It demonstrates a robust signal and specificity for the G12D mutation in wild-type (WT) and KRAS G12D mutant pancreatic tumor tissue sections (Fig. 3A) and in established cell line lysates (Fig. 3B), respectively. This RAS (G12D mutant) antibody (GTx635362) is the first commercial recombinant version that shows exceptional specificity by IHC-P for this key tumorigenic mutant protein on sequence-verified human pancreatic tumor samples.

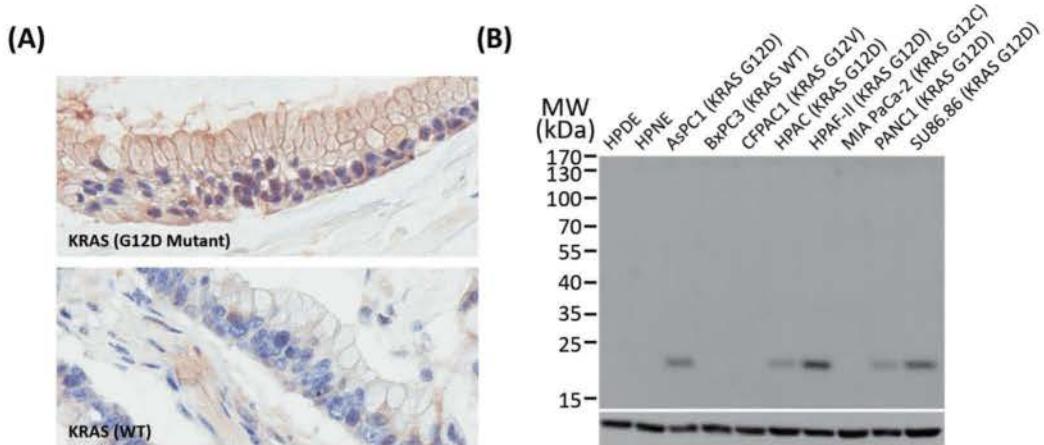


Figure 3. (A) GeneTex's recombinant rabbit RAS (G12D mutant) antibody [HL10] (GTx635362) is sensitive and specific for the RAS G12D mutation by IHC of a KRAS G12D mutant pancreatic tumor tissue section (top) compared to a wild-type KRAS section (bottom). (B) The antibody is sensitive and specific for the RAS G12D mutation by WB of extracts from wild-type and mutant KRAS-confirmed human pancreatic cell lines. GAPDH for the loading control was detected by GTx100118. Lane1: HPDE. Lane2: HPNE. Lane3: AsPC1 (KRAS G12D). Lane4: BxPC3 (KRAS WT). Lane5: CFPAC1 (KRAS G12V). Lane6: HPAC (KRAS G12D). Lane7: HPAF-II (KRAS G12D). Lane8: MIA PaCa-22 (KRAS G12C). Lane9: PANC1 (KRAS G12D). Lane10: SU86.86 (KRAS G12D).

Introduction

As mentioned above, the antigen-binding regions of a recombinant antibody can be inserted into various host IgG backbones or expressed in different binder formats (e.g., Fab fragments or scFvs). Here, GeneTex's cloned TSG101 mouse monoclonal antibody (GTX70255) was converted to a rabbit IgG backbone (GTX635396) with preservation of performance. No cross-reaction was observed when the converted TSG101 rabbit IgG recombinant antibody was used in combination with an anti-mouse IgG secondary antibody (Fig. 4).

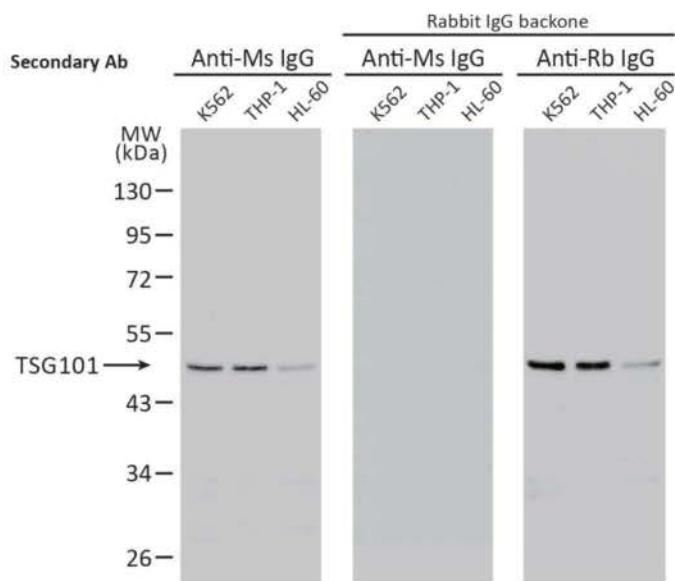


Figure 4. Backbone switch from a cloned mouse IgG antibody to a rabbit IgG antibody.

Reference:

1. *PLoS One*. 2016; 11(3): e0152282.

Introduction

2. GeneTex's Recombinant Monoclonal Antibody Production Initiative

GeneTex's production focus is the creation of novel recombinant rabbit monoclonal antibodies validated using enhanced protocols defined by the International Working Group for Antibody Validation (IWGAV).

Over the last decade, studies published in many of the top scientific journals have clearly described the significant impact of poorly validated antibody reagents on the reproducibility of biomedical research. The unfortunate reality is that the commercial antibody market is compromised by a substantial subset of products that have been demonstrated to be nonspecific. This means that there are two major issues that must be addressed in order to improve the overall quality of the commercial antibody market and therefore the integrity and reproducibility of the biomedical research dependent on antibodies. The first is more widespread adoption of production platforms that emphasize recombinant antibody technology (please see "Section 1: What is a recombinant antibody?") while the second involves incorporation of improved and more coherent validation strategies. GeneTex is making major strides in both of these endeavors.

With the goal of providing better products for its customers through innovative technology, GeneTex has now shifted all of its new production to recombinant rabbit monoclonal antibodies (please see "Section 3: Why GeneTex's rabbit-based HL clones are a better choice."). Fully recombinant antibodies are defined by their primary sequence, their consistent performance and supply (issues that plague traditional polyclonals and hybridoma-based monoclonals with regard to lot-to-lot variability), and their ability to be engineered (i.e., backbone switching) to meet researcher requirements. These benefits may even evoke more favorable impressions by grant review and journal editorial committees. Other outstanding advantages of recombinant rabbit antibodies stem from the favorable biological characteristics of the rabbit immune system itself.

In conjunction with its pivot to recombinant antibody production, GeneTex's second commitment to antibody reliability is its incorporation of enhanced validation protocols, based on the IWGAV proposal mentioned above, into its manufacturing and quality assurance (QA) workflow (1). This involves evaluation of each antibody using at least one, and preferably more, of five validation "pillars" defined in the IWGAV study. GeneTex's version of the IWGAV plan follows the five standard strategies and includes (1) Knockout/Knockdown; (2) Comparable Antibodies; (3) Immunoprecipitation followed by Mass Spectrometry (IP/MS); (4) Biological and Orthogonal Validation; and (5) Recombinant Protein Expression (Fig. 1). The company refers to this as its "5+1" Pillar Plan when referencing new recombinant antibody production, with the "+1" designation referring to the pre-validation that is inherent in the application-specific assessment that occurs with clone selection during the recombinant antibody production process (please see "New Validated Recombinant Monoclonal Antibodies from GeneTex" below).

Introduction

The new recombinant rabbit monoclonal antibodies that have been generated and evaluated using the production and validation approaches described above (these products are identified by "HL" in their clone designations) are just the beginning. GeneTex is also working to replace its successful polyclonals with new recombinants. The company envisions the "HL" clones representing the highest level of GeneTex validation and manufacturing capability.

Antibody fidelity, application-dependent reliability, and performance and supply consistency are crucial for ensuring research integrity. GeneTex joins other reputable companies in leveraging recombinant antibody technology and enhanced validation to create antibodies that researchers can trust.

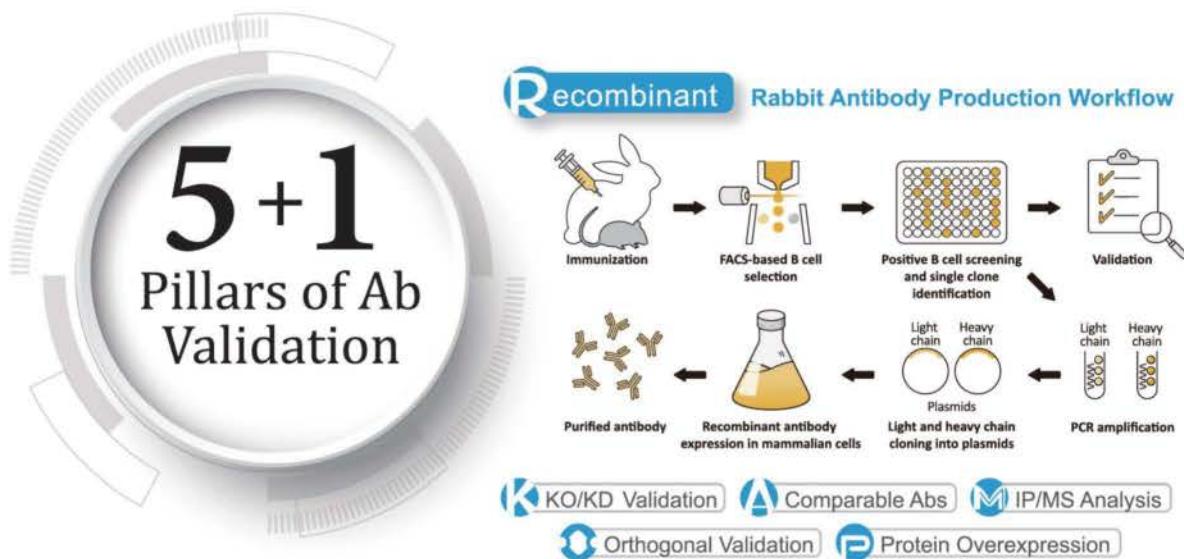


Figure 1. GeneTex's "5+1" Pillar Plan for recombinant antibody validation.

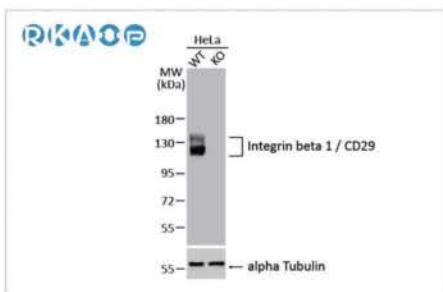
Introduction

New Validated Recombinant Monoclonal Antibodies from GeneTex



Knockout / Knockdown Validation

Complete removal or significant reduction of the endogenous signal following genetic strategies involving genome editing or RNA interference, respectively.

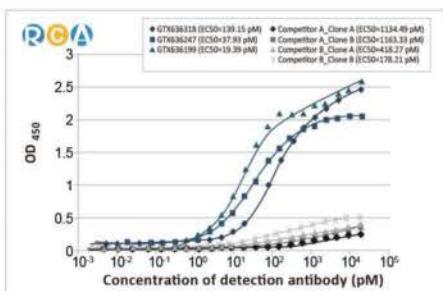


Integrin beta 1 / CD29 antibody [HL1255]
([GTx636657](#))



Comparable Antibodies

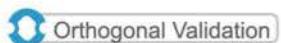
Independent antibodies against the same target but to different epitopes, often including distinct samples with different target protein expression levels.



Influenza A Virus Nucleoprotein antibody
[HL1089] ([GTx636247](#))

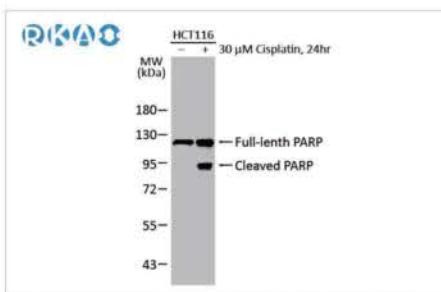
Introduction

New Validated Recombinant Monoclonal Antibodies from GeneTex



Biological and Orthogonal Validation

Alterations in the endogenous level of the target protein in accordance with specific preparation conditions corresponding to defined biological characteristics, or comparison between antibody-dependent and-independent methods.

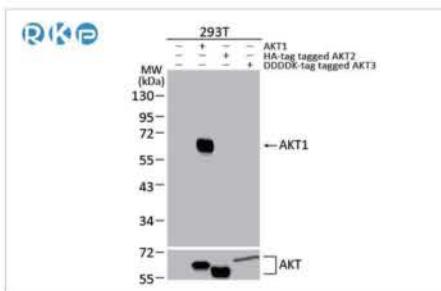


PARP antibody [HL1364] ([GTx636804](#))



Protein Overexpression

Tagged target proteins overexpressed in transfected cells are used as a positive control for validation.



AKT1 antibody [HL1142] ([GTx636413](#))

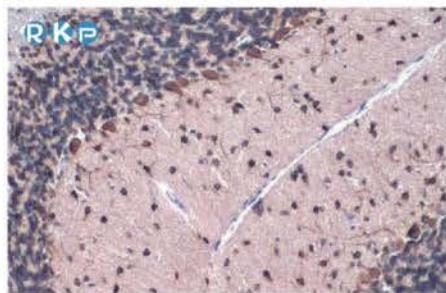
Introduction

New Validated Recombinant Monoclonal Antibodies from GeneTex

Recombinant

Recombinant Antibody

Antibody is generated using recombinant technology.



Gli1 antibody [HL247] ([GTX635619](#))

Reference:

1. *Nat Methods*. 2016 Oct;13(10):823-7.

Introduction

3. Why GeneTex's rabbit-based HL clones are a better choice.

GeneTex's recombinant rabbit monoclonal antibody production process is the platform for all new rabbit-based antibody generation (1). These products are distinguished by the "HL" designation in their respective clone numbers (e.g., "[HL1089]"). The rabbit, and specifically its immune system, is known to confer the following outstanding benefits for monoclonal antibody creation: broader antibody range, less complex immunoglobulin (Ig) structure, higher binding affinities, larger pool of lymphocytes to select antibodies (2). Each of these advantages is described in more detail below:

1. Broader antibody repertoire:

- a. Rabbits belong to the order Lagomorpha, which is evolutionarily distinct from the order Rodentia. This means that human antigens present epitopes that are often more immunogenic in rabbits than in mice, expanding the number of generated antibodies that may in turn cross-react with murine protein orthologs (2-5).
- b. The rabbit immune system is more successful in mounting an immune response to hapten or small molecule antigens, which is frequently not the case with the murine immune system (2-5).
- c. Mice used to generate monoclonal antibodies are from inbred lines and offer less diversity in their immunogenic responses than do rabbits. In addition, mouse spleens are much smaller than rabbit spleens (2-5).
- d. The rabbit immune system is different from those of mice and humans in that it utilizes somatic gene conversion (SGC) to expand its antibody range in addition to performing the same VDJ and VJ recombination and somatic hypermutation (SHM) mechanisms noted in mice and humans. Antibody diversity is further enhanced by other processes that include a kappa light chain variable gene structure distinctive for variability in the length of complementarity determining region 3 (LCDR3), as well as successive Ig development in the bone marrow, the gut-associated lymphoid tissues (GALT), and spleen and lymph node germinal centers (3, 5).

2. Simpler Ig structure:

- a. The European rabbit (*Oryctolagus cuniculus*) is known to have single genes for IgE and IgM, and no genes for IgD. Interestingly, its genome contains 13 IGHA genes coding for at least 10 functional IgA subclasses. Importantly, though there are allelic variants, rabbits have only one IgG gene (and thus no subclass) and therefore differ from mice and humans (each with four IgG subclasses) (4, 5).
- b. In addition to the disulfide bonds found in a human or mouse IgG (linking the heavy chain pair or one heavy chain to its associated light chain), rabbit IgG antibodies demonstrate a unique intrachain disulfide bond in their K1 light chain. This is significant as perhaps 90% of IgGs in New Zealand White rabbits are IgG-k (K1), and this extra bond is thought to confer stability onto the rabbit IgG (2, 5).

3. Enhanced binding affinity:

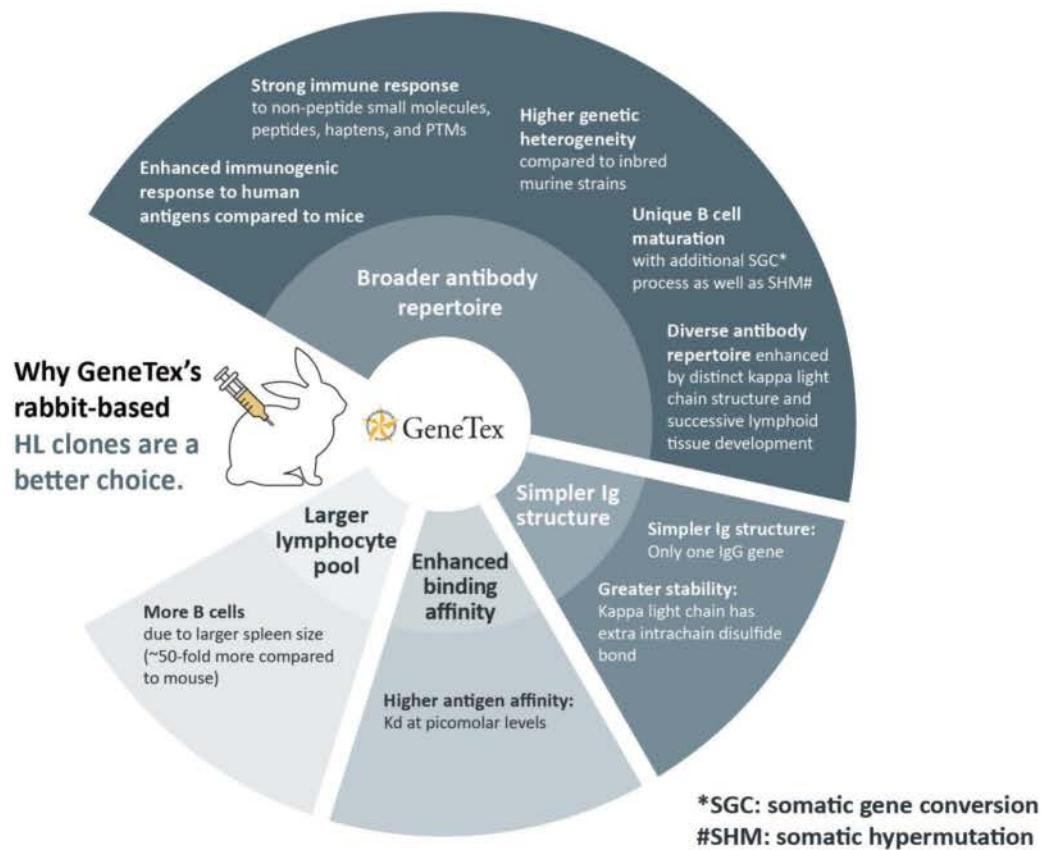
- a. Rabbit monoclonal antibodies have very high affinities with Kd values characteristically in the picomolar range, with some possessing exceptionally low picomolar Kd values (2, 5).
- b. Picomolar Kds translate to increased sensitivity with consistent specificity.

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4. Larger lymphocyte pool:

- a. Rabbits have a longer life span and their larger size (perhaps a 100-fold weight differential between a three-month-old rabbit and a six-week-old mouse) greatly facilitates blood and tissue sampling during antibody production (5).
- b. Consistent with the statements above, rabbit spleens allow isolation of 50-fold more B cells compared to murine spleens, meaning more clones recognizing a wider selection of epitopes (2-5).

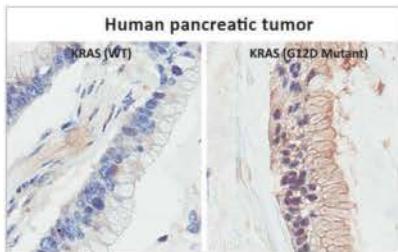
GeneTex hopes that the distinct advantages of rabbit monoclonal antibodies discussed above will encourage you to consider our HL clones for your research needs. As GeneTex has now shifted all of its new antibody production to the creation of these monoclonal antibodies, our product inventory will continue to expand rapidly moving forward.



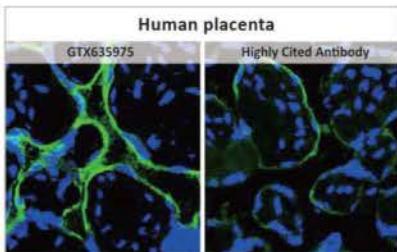
References:

1. *PLoS One*. 2016 Mar 29;11(3):e0152282.
2. *Am J Transl Res*. 2011 May 15;3(3):269-74.
3. *Comp Immunol*. 2006;30(1-2):137-53.
4. *Immunogenetics*. 2016 Feb;68(2):83-107.
5. *Exp Mol Med*. 2017 Mar; 49(3): e305.

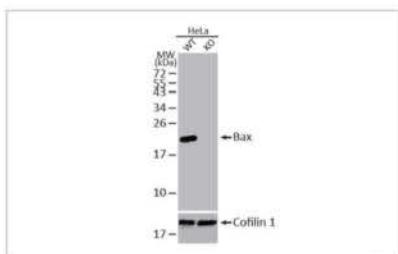
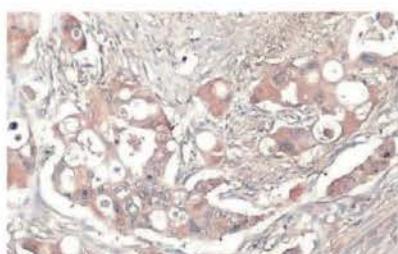
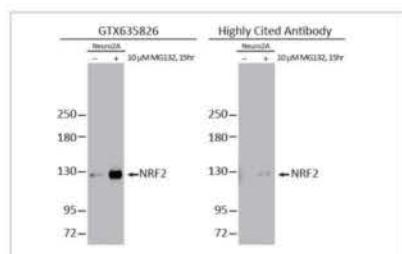
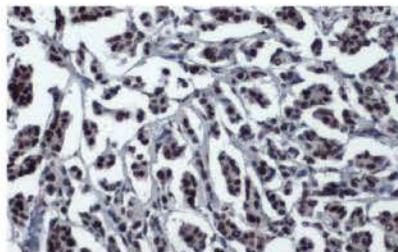
Highlighted Antibodies



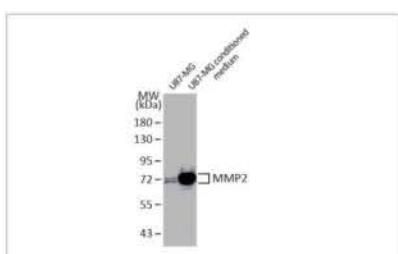
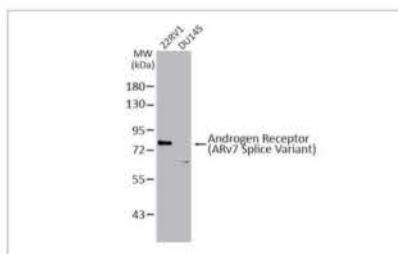
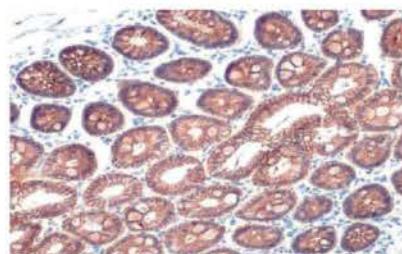
RAS (G12D Mutant) antibody [HL10] (GTX635362)



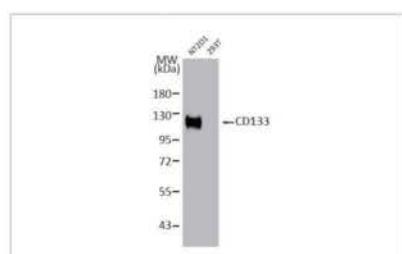
PD-L1 antibody [HL1041] (GTX635975)



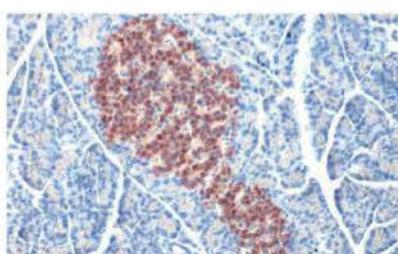
Bax antibody [HL236] (GTX635715)



MMP2 antibody [HL1207] (GTX636524)



CD133 antibody [HL1271] (GTX636673)



Cancer Research

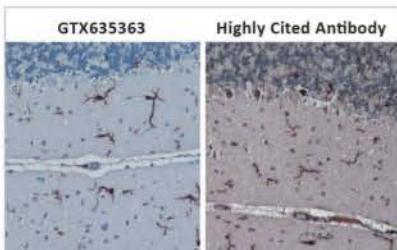
Cat. No.	Product Name	Clonality	Reactivity	Applications
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GTX638125	ADFP antibody [HL2147]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX637225	AF9 antibody [HL1644]	Rec Rb mAb	Hu	WB, ICC/IF
GTX636413	AKT1 antibody [HL1142]	Rec Rb mAb	Hu,Rat,Cat,Dog	WB, ICC/IF, IHC-P
GTX636639	Androgen Receptor (ARv7 Splice Variant) antibody [HL1240]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P, IHC-P (cell pellet)
GTX636021	Androgen Receptor antibody [HL1049]	Rec Rb mAb	Hu,Rat	WB, ICC/IF, IHC-P
GTX637312	Apolipoprotein A1 antibody [HL1713]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, ELISA
GTX638177	ARL13B antibody [HL2173]	Rec Rb mAb	Hu	WB
GTX636086	ATM (phospho Ser1981) antibody [HL1062]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P
GTX635395	ATM antibody [2C1-RB]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX635571	ATR (phospho Thr1989) antibody [HL132]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637922	AXL antibody [HL2021]	Rec Rb mAb	Hu	WB, ELISA
GTX637619	BATF antibody [HL1870]	Rec Rb mAb	Hu,Ms	WB, ICC/IF
GTX635715	Bax antibody [HL236]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638196	BCL6 antibody [HL2192]	Rec Rb mAb	Hu,Ms	WB
GTX637939	Bcl-XL antibody [HL2038]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637403	beta Catenin antibody [HL1753]	Rec Rb mAb	Hu,Ms,Cat,Dog	WB, ICC/IF, IHC-P
GTX636515	BNIP3L antibody [HL1203]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637085	B-Raf antibody [HL1606]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, ICC/IF, IHC-P
GTX636876	Carbonic Anhydrase IX antibody [HL1410]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX636810	Caspase 3 antibody [HL1370]	Rec Rb mAb	Hu,Rat	WB, IHC-P
GTX636673	CD133 antibody [HL1271]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637068	CD28 antibody [HL1589]	Rec Rb mAb	Hu,Cat,Dog	WB, ICC/IF, IHC-P
GTX637644	CD34 antibody [HL1895]	Rec Rb mAb	Hu	FACS
GTX637956	CD41 antibody [HL2052]	Rec Rb mAb	Hu	WB
GTX637231	CD44 antibody [HL1650]	Rec Rb mAb	Hu,Cat,Dog	WB, ICC/IF, IHC-P
GTX635978	CDH11 antibody [HL1044]	Rec Rb mAb	Hu,Ms,Rat,Cat	WB
GTX635979	cIAP1 antibody [HL1045]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, IHC-P
GTX637000	Claudin 3 antibody [HL1527]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P
GTX637952	COL1A2 antibody [HL2048]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX636771	COL4A1 antibody [HL1351]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX637655	Collagen III antibody [HL1906]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX636463	C-Peptide antibody [HL1159]	Rec Rb mAb	Hu,Ms,Rat	IHC-P, ELISA
GTX636662	CYLD antibody [HL1260]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638122	CYR61 antibody [HL2144]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637937	Desmoglein 2 antibody [HL2036]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX636580	Dicer antibody [HL1232]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, ICC/IF, IHC-P
GTX636577	E-Cadherin antibody [HL1229]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, ICC/IF, IHC-P
GTX635716	EGFR (E746-A750del) antibody [HL363]	Rec Rb mAb	Hu	WB
GTX635834	EGFR (L858R Mutant) antibody [HL1022]	Rec Rb mAb	Hu	WB
GTX636758	EpCAM antibody [HL1338]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P, FACS
GTX637446	EPO antibody [HL1794]	Rec Rb mAb	Hu,Cat,Dog	WB, IHC-P, ELISA, Sandwich ELISA
GTX636203	Estrogen Receptor alpha antibody [HL1082]	Rec Rb mAb	Hu	WB, IHC-P
GTX637865	FAH antibody [HL1972]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX635714	FAK (phospho Tyr576) antibody [HL127]	Rec Rb mAb	Hu,Ms,Rat	WB
GTX637074	FGFR3 antibody [HL1595]	Rec Rb mAb	Hu,Cat,Dog	WB
GTX638480	FGL1 antibody [HL2317]	Rec Rb mAb	Hu	WB
GTX637457	FLI1 antibody [HL1805]	Rec Rb mAb	Hu	WB
GTX637867	FOXA1 antibody [HL1974]	Rec Rb mAb	Hu	WB
GTX638194	FOXO3A antibody [HL2190]	Rec Rb mAb	Hu,Ms	WB
GTX635619	Gli1 antibody [HL247]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637272	HCK antibody [HL1673]	Rec Rb mAb	Hu,Ms	WB, IHC-P

Cancer Research

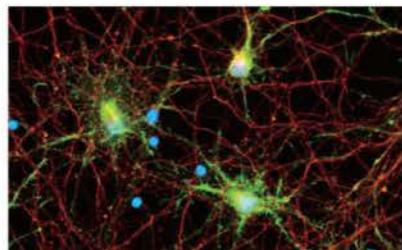
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GTX638573	HEY1 antibody [HL2367]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637378	HGS antibody [HL1730]	Rec Rb mAb	Hu,Cat,Dog	WB, ICC/IF, IHC-P
GTX637228	Human Papillomavirus type 16 E7 antibody [HL1647]	Rec Rb mAb	HPV16	WB, ICC/IF, ELISA, Lateral Flow, Sandwich ELISA
GTX637411	IL18 antibody [HL1761]	Rec Rb mAb	Hu	WB, IHC-P, ELISA
GTX636531	iNOS antibody [HL1213]	Rec Rb mAb	Ms,Rat	WB, ICC/IF, IHC-P
GTX637015	IP3 Receptor I antibody [HL1541]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638321	KLF5 antibody [HL2269]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638090	MAP3K8 antibody [HL2118]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX637437	Mig-6 antibody [HL1785]	Rec Rb mAb	Hu	WB, IHC-P
GTX637574	MLKL antibody [HL1849]	Rec Rb mAb	Hu	WB, ICC/IF
GTX636661	MMP1 antibody [HL1259]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P
GTX636524	MMP2 antibody [HL1207]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX638220	mTOR antibody [HL2216]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX637372	MUC2 antibody [HL1724]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX636812	MyoD1 antibody [HL1372]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX635826	NRF2 antibody [HL1021]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, PLA
GTX637907	ORP150 antibody [HL2006]	Rec Rb mAb	Hu,Ms,Rat	WB
GTX635797	p38 MAPK antibody [HL1006]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB
GTX636395	p53 (R175H Mutant) antibody [HL1129]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P
GTX638291	p53 antibody [HL2242]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX636840	p53R2 antibody [HL1400]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX635841	p63 antibody [HL1027]	Rec Rb mAb	Hu,Ms,Zfsh	WB, ICC/IF, IHC-P
GTX636804	PARP antibody [HL1364]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX635975	PD-L1 antibody [HL1041]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P
GTX638208	PFKFB4 antibody [HL2204]	Rec Rb mAb	Hu	WB
GTX636681	PKC (pan) (zeta phospho Thr410) antibody [HL1279]	Rec Rb mAb	Hu,Ms,Rat,Dm	WB, ICC/IF, IHC-P
GTX636461	PKC theta (phospho Thr219) antibody [HL1157]	Rec Rb mAb	Hu	WB, ICC/IF
GTX637979	Plasminogen antibody [HL2071]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX635981	RAB6A antibody [HL1047]	Rec Rb mAb	Hu,Ms,Rat,Zfsh	WB, ICC/IF, IHC-P
GTX636434	RAS (G12A mutant) antibody [HL1153]	Rec Rb mAb	Hu	WB
GTX635362	RAS (G12D Mutant) antibody [HL10]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX635623	RAS (G12V Mutant) antibody [HL169]	Rec Rb mAb	Hu	WB, IHC-P
GTX636938	STAT3 (phospho Tyr705) antibody [HL1464]	Rec Rb mAb	Hu,Rat	WB
GTX636400	STAT3 antibody [HL1134]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, IHC-P
GTX637791	TCF3 / E2A antibody [HL1954]	Rec Rb mAb	Hu	WB, ICC/IF
GTX636411	Thrombospondin 2 antibody [HL1140]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P, ELISA, Sandwich ELISA
GTX637058	TNF alpha antibody [HL1579]	Rec Rb mAb	Hu	WB
GTX638190	Tryptophanyl tRNA synthetase antibody [HL2186]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637405	VEGFA antibody [HL1755]	Rec Rb mAb	Hu	WB
GTX638344	VEGFC antibody [HL2289]	Rec Rb mAb	Hu	WB
GTX636980	Vimentin antibody [HL1506]	Rec Rb mAb	Hu,Ms,Rat,Cat	WB, ICC/IF, IHC-P
GTX635821	VPS35 antibody [HL1017]	Rec Rb mAb	Hu,Ms,Rat,Zfsh, Cat,Dog	WB, ICC/IF, IHC-P, IP
GTX637638	Wnt4 antibody [HL1889]	Rec Rb mAb	Hu	WB
GTX637643	YAP1 antibody [HL1894]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P
GTX638294	ZEB1 antibody [HL2245]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P

Neuroscience Research

Highlighted Antibodies



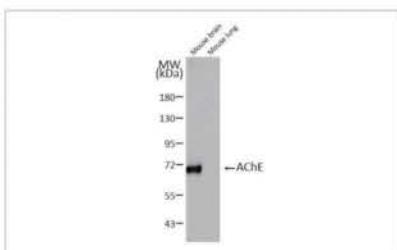
Iba1 antibody [HL22] (GTX635363)



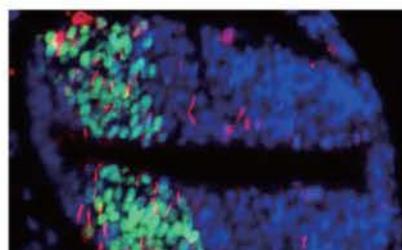
iNOS antibody [HL1213] (GTX636531)



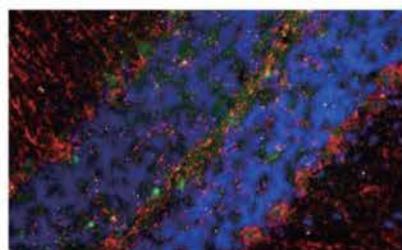
GAD67 antibody [HL1095] (GTX636279)



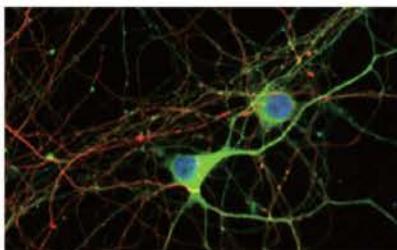
AChE antibody [HL1102] (GTX636298)



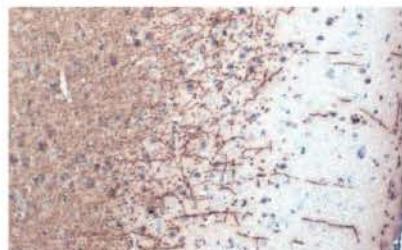
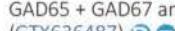
OLIG2 antibody [HL1072] (GTX636104)



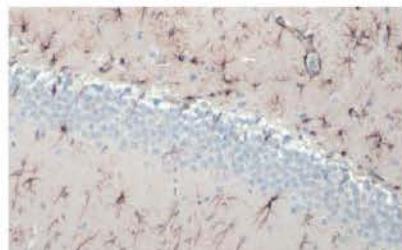
Somatostatin antibody [HL1101] (GTX636297)



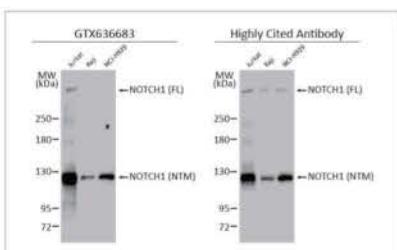
GAD65 + GAD67 antibody [HL1181] (GTX636487)



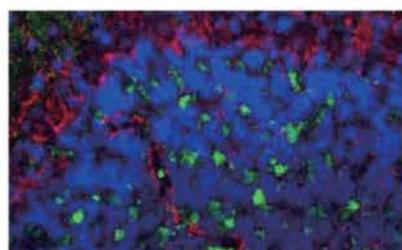
Myelin basic Protein antibody [HL1033] (GTX635873)



GFAP antibody [HL1307] (GTX636725)



NOTCH1 antibody [HL1281] (GTX636683)



alpha Synuclein antibody [HL1242] (GTX636641)



NFX1 antibody [HL1269] (GTX636671)



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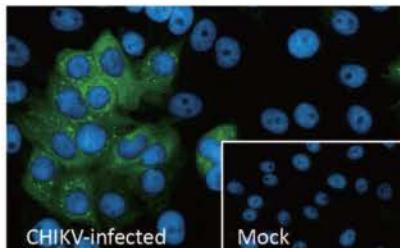
Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX636298	ACHE antibody [HL1102]	Rec Rb mAb	Hu,Ms,Rat,Cat	WB, ICC/IF, IHC-P
GTX636641	alpha Synuclein antibody [HL1242]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IHC-Fr
GTX637658	Ataxin 3 antibody [HL1909]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637652	ATXN2 antibody [HL1903]	Rec Rb mAb	Hu	WB
GTX637380	Bassoon antibody [HL1732]	Rec Rb mAb	Ms,Rat	ICC/IF, IHC-P
GTX637308	beta Tubulin 3 / Tuj1 antibody [HL1709]	Rec Rb mAb	Hu,Ms,Rat,Dm	WB, ICC/IF, IHC-P
GTX638338	Brachyury antibody [HL2285]	Rec Rb mAb	Rat	ICC/IF
GTX635397	C9orf72 antibody [GT779-RB]	Rec Rb mAb	Hu,Ms,Rat,Cat	WB, ICC/IF, IHC-P
GTX637439	Calbindin + Calretinin antibody [HL1787]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638587	Calbindin antibody [HL2379]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IHC-Fr
GTX637416	CD90 antibody [HL1766]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637674	CD97 antibody [HL1925]	Rec Rb mAb	Hu	WB, IHC-P, FACS, IP
GTX637124	CD133 antibody [HL1631]	Rec Rb mAb	Hu	FACS
GTX637915	Choline Acetyltransferase antibody [HL2014]	Rec Rb mAb	Ms,Rat	WB, ICC/IF, IHC-P
GTX636283	CLOCK antibody [HL1099]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637559	CRALBP antibody [HL1834]	Rec Rb mAb	Ms	WB
GTX636322	DDR2 antibody [HL1107]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637122	delta 2 Catenin antibody [HL1629]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF
GTX637779	DLX2 antibody [HL1942]	Rec Rb mAb	Hu,Rat	WB, ICC/IF
GTX636467	Dopamine beta Hydroxylase antibody [HL1163]	Rec Rb mAb	Hu	WB, ICC/IF
GTX636952	Dopamine Receptor D2 antibody [HL1478]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637871	ELAVL2 antibody [HL1978]	Rec Rb mAb	Hu,Ms,Rat	ICC/IF, IHC-P
GTX637268	GABA A Receptor alpha 6 antibody [HL1669]	Rec Rb mAb	Hu,Ms,Rat	WB
GTX636493	GAD65 antibody [HL1187]	Rec Rb mAb	Hu,Ms,Rat,Zfsh,Cat,Dog	WB, ICC/IF, IHC-P
GTX636279	GAD67 antibody [HL1095]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, ICC/IF, IHC-P
GTX636487	GAD65 + GAD67 antibody [HL1181]	Rec Ms mAb	Hu,Ms,Rat,Zfsh,Cat,Dog	WB, ICC/IF, IHC-P
GTX637921	Galectin 3 antibody [HL2020]	Rec Rat mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX636725	GFAP antibody [HL1307]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P, IHC-Fr
GTX638096	GLUD1+ GLUD2 antibody [HL2124]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638336	Glutamine synthetase antibody [HL2283]	Rec Rb mAb	Hu,Ms,Rat	WB
GTX638004	GNAI3 antibody [HL2096]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638000	GNAI1 + GNAI2 + GNAI3 antibody [HL2092]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637038	GRK2 antibody [HL1562]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637540	Grp78 antibody [HL1815]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638133	HFE antibody [HL2155]	Rec Rb mAb	Hu	WB
GTX637916	HPRT antibody [HL2015]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638147	Iba1 antibody [HL1880-MS]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IHC-Fr
GTX638148	Iba1 antibody [HL1880-RT]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX635363	Iba1 antibody [HL22]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IHC-Fr
GTX637795	IGF1R antibody [HL1958]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638104	IGF2 antibody [HL2132]	Rec Rb mAb	Hu	WB, ELISA
GTX636979	IGFBP3 antibody [HL1505]	Rec Rb mAb	Hu	WB
GTX636887	IL1 beta antibody [HL1421]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, ELISA
GTX636531	iNOS antibody [HL1213]	Rec Rb mAb	Ms,Rat	WB, ICC/IF, IHC-P
GTX637015	IP3 Receptor I antibody [HL1541]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637253	MAP2 antibody [HL1655]	Rec Rb mAb	Ms,Rat	ICC/IF, IHC-P
GTX637278	MAT1A + MAT2A antibody [HL1679]	Rec Rb mAb	Hu,Ms,Dm	WB
GTX636944	MC1 Receptor antibody [HL1470]	Rec Rb mAb	Hu,Ms	WB
GTX636524	MMP2 antibody [HL1207]	Rec Rb mAb	Hu,Ms	WB, IHC-P

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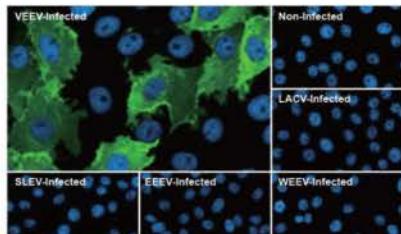
Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX638472	MNT antibody [HL2309]	Rec Rb mAb	Hu	WB, ICC/IF
GTX635873	Myelin basic protein antibody [HL1033]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IHC-Fr
GTX637285	NeuN antibody [HL1686]	Rec Rb mAb	Ms,Rat	IHC-P, IHC-Fr
GTX638198	NeuN antibody [HL2194]	Rec Rb mAb	Ms,Rat	ICC/IF, IHC-P, IHC-Fr
GTX636671	NFIx antibody [HL1269]	Rec Rb mAb	Ms,Rat	ICC/IF, IHC-P
GTX636683	NOTCH1 antibody [HL1281]	Rec Rb mAb	Hu	WB
GTX637005	NPEPPS antibody [HL1531]	Rec Rb mAb	Hu,Ms,Rat,Zfsh,Cat,Dog	WB, ICC/IF, IHC-P
GTX637577	Nurr1 antibody [HL1852]	Rec Rb mAb	Hu	ICC/IF
GTX636104	OLIG2 antibody [HL1072]	Rec Rb mAb	Ms,Rat	ICC/IF, IHC-P, IHC-Fr
GTX635463	PAX3 antibody [HL160]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX636799	PDE6D antibody [HL1359]	Rec Rb mAb	Hu,Ms,Rat,Zfsh,Cat,Dog	WB, IHC-P
GTX637944	Pet1 antibody [HL2043]	Rec Rb mAb	Hu	WB
GTX638271	PKC gamma antibody [HL2226]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637979	Plasminogen antibody [HL2071]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637548	Prealbumin antibody [HL1823]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX636321	RBPMS antibody [HL1106]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX636868	RGS1 antibody [HL1402]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX636996	RGS4 antibody [HL1522]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF
GTX636993	RPE65 antibody [HL1519]	Rec Rb mAb	Ms	WB, IHC-P
GTX638273	S100 beta antibody [HL2228]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638275	SIGMAR1 antibody [HL2230]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX635798	SMCR8 antibody [HL1007]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638370	SNAI1 antibody [HL2303]	Rec Rb mAb	Hu	WB, ICC/IF
GTX637255	SNAP91 antibody [HL1657]	Rec Rb mAb	Hu,Ms,Rat,Cat	WB, IHC-P
GTX637251	SOD1 antibody [HL1653]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, IHC-P
GTX636957	SOD2 antibody [HL1483]	Rec Rb mAb	Hu,Zfsh	WB, IHC-P
GTX636297	Somatostatin antibody [HL1101]	Rec Rb mAb	Ms,Rat,Cat,Dog	WB, ICC/IF, IHC-P
GTX636836	SP1 antibody [HL1396]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638281	SPG7 antibody [HL2236]	Rec Rb mAb	Ms	IHC-P
GTX636800	StAR antibody [HL1360]	Rec Rb mAb	Hu,Ms,Cat,Dog	WB, ICC/IF, IHC-P
GTX638320	Stargazin antibody [HL2268]	Rec Rb mAb	Ms,Rat	WB, IHC-P
GTX637252	Synaptotagmin 1 antibody [HL1654]	Rec Rb mAb	Hu,Ms,Rat,Dm	WB, ICC/IF
GTX636678	Tau (phospho Thr217) antibody [HL1276]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, ELISA
GTX637412	Tyrosine Hydroxylase antibody [HL1762]	Rec Rb mAb	Ms,Rat	WB, IHC-P
GTX637107	VGAT antibody [HL1616]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IHC-Fr
GTX637018	VRL1 antibody [HL1543]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P

Virus Research

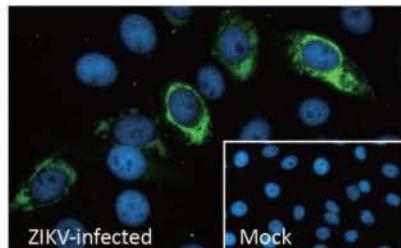
Highlighted Antibodies



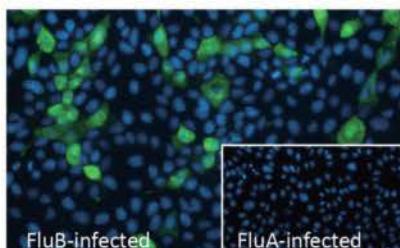
Chikungunya Virus nsP2 antibody [HL1488] (GTX636962)



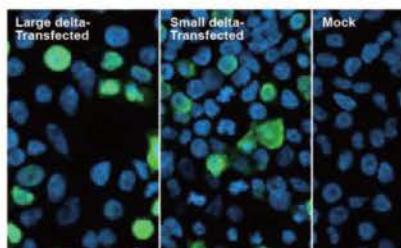
Venezuelan Equine Encephalitis Virus nsP1 antibody [HL1472] (GTX636946)



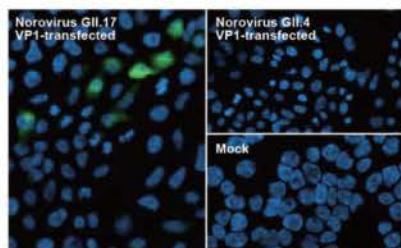
Zika Virus Envelope protein antibody [HL1699] (GTX637298)



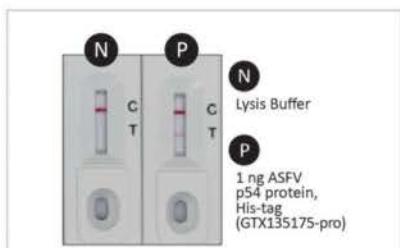
Influenza B Virus Nucleoprotein antibody [HL1068] (GTX636099)



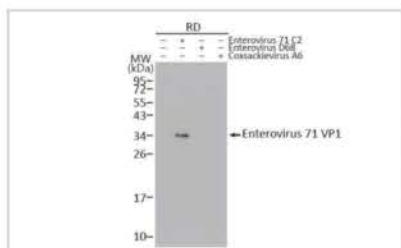
Hepatitis D virus Large delta + Small delta protein antibody [HL1055] (GTX636030)



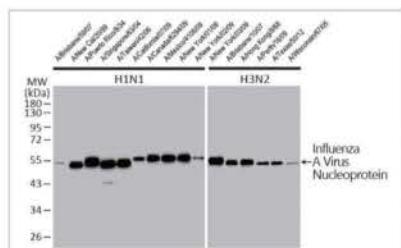
Norovirus VP1 antibody [HL2177] (GTX638181)



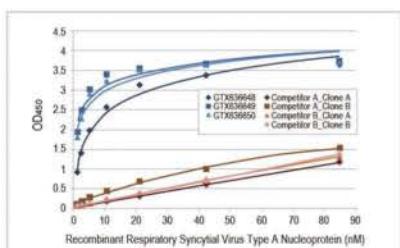
ASFV p54 antibody [HL1289] (GTX636703)



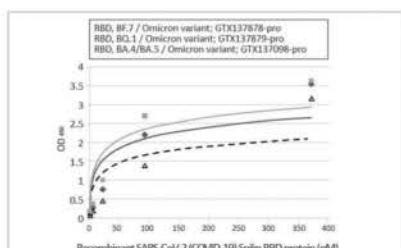
Enterovirus 71 VP1 antibody [HL1929] (GTX637688)



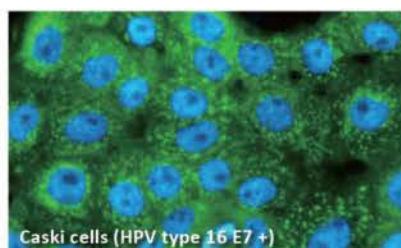
Influenza A Virus Nucleoprotein antibody [HL1103] (GTX636318)



Respiratory Syncytial Virus Nucleoprotein antibody [HL1246] (GTX636648)



Capture: SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1014] (GTX635807)
Detection: HRP-conjugated SARS-CoV-2 (COVID-19) Spike RBD Omicron antibody [HL1867] (GTX637592)



Human Papillomavirus type 16 E7 antibody [HL1647] (GTX637228)

Virus Research

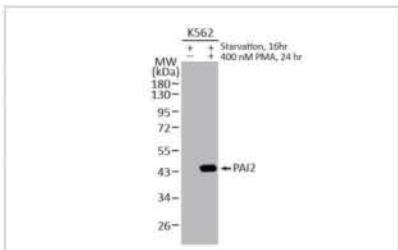
Cat. No.	Product Name	Clonality	Applications
GTX636265	ACE2 antibody [HL1092]	Rec Rb mAb	WB, ICC/IF, IHC-P
GTX636701	ASFV p54 antibody [HL1287]	Rec Rb mAb	WB, ICC/IF, ELISA, Lateral Flow, Sandwich ELISA
GTX637025	Avian Influenza A virus H5N8 HA (Hemagglutinin) antibody [HL1550]	Rec Rb mAb	WB, IHC-P (cell pellet)
GTX637973	Chikungunya virus E1 antibody [HL2069]	Rec Rb mAb	WB
GTX636962	Chikungunya virus nsP2 antibody [HL1488]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX637892	Dengue virus type 2, 3 NS1 protein antibody [HL1991]	Rec Rb mAb	WB, ICC/IF
GTX637688	Enterovirus 71 VP1 antibody [HL1929]	Rec Rb mAb	WB, ELISA, Sandwich ELISA
GTX637898	Enterovirus D68 VP1 antibody [HL1997]	Rec Rb mAb	WB, ELISA, Sandwich ELISA
GTX636028	Hepatitis D virus Large delta + Small delta protein antibody [HL1053]	Rec Rb mAb	WB, ICC/IF
GTX636026	Hepatitis D virus Large delta protein antibody [HL1051]	Rec Rb mAb	WB, ICC/IF
GTX637228	Human Papillomavirus type 16 E7 antibody [HL1647]	Rec Rb mAb	WB, ICC/IF, ELISA, Lateral Flow, Sandwich ELISA
GTX637034	Influenza A virus H10N3 HA (Hemagglutinin) antibody [HL1559]	Rec Rb mAb	ICC/IF, IHC-P (cell pellet)
GTX636323	Influenza A virus H1N1 NA (Neuraminidase) antibody [HL1108]	Rec Rb mAb	WB, ICC/IF
GTX636675	Influenza A virus M1 (matrix protein) antibody [HL1273]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX637581	Influenza A virus M2 (matrix protein) antibody [HL1856]	Rec Rb mAb	WB, ICC/IF
GTX638102	Influenza A virus NS1 (nonstructural protein) antibody [HL2130]	Rec Rb mAb	WB, ICC/IF
GTX636199	Influenza A virus Nucleoprotein antibody [HL1078]	Rec Rb mAb	WB, ICC/IF, ELISA, Lateral Flow, Sandwich ELISA
GTX636828	Influenza A virus PA protein antibody [HL1388]	Rec Rb mAb	WB, ICC/IF
GTX637313	Influenza A virus PB1 protein antibody [HL1714]	Rec Rb mAb	WB, ICC/IF
GTX637893	Influenza A virus PB2 protein antibody [HL1992]	Rec Rb mAb	WB, ICC/IF
GTX638212	Influenza B virus Hemagglutinin (HA) antibody [HL2208]	Rec Rb mAb	WB
GTX636950	Influenza B virus Neuraminidase (NA) antibody [HL1476]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX636099	Influenza B virus Nucleoprotein antibody [HL1068]	Rec Rb mAb	WB, ICC/IF, ELISA, Lateral Flow, Sandwich ELISA
GTX636832	Lassa virus Nucleoprotein antibody [HL1392]	Rec Rb mAb	WB, ICC/IF
GTX636902	Nipah virus Nucleoprotein antibody [HL1436]	Rec Rb mAb	WB, ICC/IF
GTX638181	Norovirus VP1 antibody [HL2177]	Rec Rb mAb	WB, ICC/IF
GTX637947	PRRS virus Nucleocapsid protein antibody [HL2046]	Rec Rb mAb	WB, ICC/IF
GTX636650	Respiratory Syncytial virus Nucleoprotein antibody [HL1248]	Rec Rb mAb	WB, ICC/IF, IP, ELISA, Lateral Flow, Sandwich ELISA
GTX636711	Respiratory Syncytial virus type A Nucleoprotein antibody [HL1297]	Rec Rb mAb	WB, ICC/IF, IP, ELISA, Sandwich ELISA
GTX637381	Respiratory Syncytial virus type B G protein antibody [HL1733]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX636915	SARS-CoV-2 (COVID-19) Envelope antibody [HL1443]	Rec Rb mAb	WB, ICC/IF
GTX636245	SARS-CoV-2 (COVID-19) Membrane antibody [HL1087]	Rec Rb mAb	WB, ICC/IF
GTX636901	SARS-CoV-2 (COVID-19) nsp1 antibody [HL1435]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX636811	SARS-CoV-2 (COVID-19) nsp2 antibody [HL1371]	Rec Rb mAb	WB, ICC/IF
GTX636807	SARS-CoV-2 (COVID-19) 3CLpro (nsp5) antibody [HL1367]	Rec Rb mAb	WB, ICC/IF
GTX636719	SARS-CoV-2 (COVID-19) nsp7 antibody [HL1301]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX636997	SARS-CoV-2 (COVID-19) nsp8 antibody [HL1523]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX636839	SARS-CoV-2 (COVID-19) nsp9 antibody [HL1399]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX636821	SARS-CoV-2 (COVID-19) nsp10 antibody [HL1381]	Rec Rb mAb	WB, ICC/IF
GTX638225	SARS-CoV-2 (COVID-19) nsp12 / RdRP antibody [HL2221]	Rec Rb mAb	WB
GTX636881	SARS-CoV-2 (COVID-19) nsp12 antibody [HL1415]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX636917	SARS-CoV-2 (COVID-19) nsp15 antibody [HL1445]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX637782	SARS-CoV-2 (COVID-19) nsp16 antibody [HL1945]	Rec Rb mAb	WB, ICC/IF
GTX635679	SARS-CoV-2 (COVID-19) Nucleocapsid antibody [HL344]	Rec Rb mAb	WB, ICC/IF, IHC-P, IHC-Fr, ELISA, Sandwich ELISA, IHC-P (cell pellet)
GTX637321	SARS-CoV-2 (COVID-19) ORF3a antibody [HL1722]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX636925	SARS-CoV-2 (COVID-19) ORF7b antibody [HL1453]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX637666	SARS-CoV-2 (COVID-19) ORF9b antibody [HL1917]	Rec Rb mAb	WB, ICC/IF
GTX636891	SARS-CoV-2 (COVID-19) Spike (N501Y Mutant) antibody [HL1425]	Rec Rb mAb	WB
GTX635792	SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1003]	Rec Rb mAb	ICC/IF, ELISA, Neutralizing/Inhibition, Sandwich ELISA
GTX635866	SARS-CoV-2 (COVID-19) Spike RBD antibody [HL1003-HU]	Rec Hu mAb	ELISA, Neutralizing/Inhibition, Sandwich ELISA
GTX637592	SARS-CoV-2 (COVID-19) Spike RBD Omicron antibody [HL1867]	Rec Rb mAb	ICC/IF, ELISA, Neutralizing/Inhibition, Sandwich ELISA

Virus Research

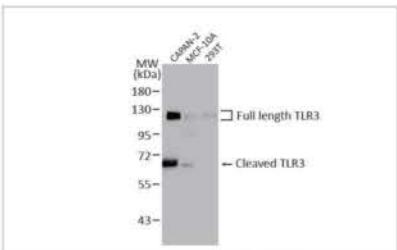
Cat. No.	Product Name	Clonality	Applications
GTX635654	SARS-CoV-2 (COVID-19) Spike S1 antibody [HL6]	Rec Rb mAb	WB, ICC/IF, IHC-P, FACS, ELISA, Sandwich ELISA, IHC-P (cell pellet)
GTX635911	SARS-CoV-2 (COVID-19) Spike S2 / S2' antibody [HL1039]	Rec Rb mAb	WB, ICC/IF, ELISA, Sandwich ELISA, IHC-P (cell pellet)
GTX635693	SARS-CoV-2 (COVID-19) Spike S2 antibody [HL237]	Rec Rb mAb	WB, ICC/IF, ELISA, Sandwich ELISA, IHC-P (cell pellet)
GTX636762	Swine Influenza A virus G4 EA H1N1 HA (Hemagglutinin) antibody [HL1342]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX638274	TMPRSS2 antibody [HL2229]	Rec Rb mAb	WB
GTX636946	Venezuelan Equine Encephalitis Virus nsP1 antibody [HL1472]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX637668	Venezuelan Equine Encephalitis Virus nsP2 antibody [HL1919]	Rec Rb mAb	WB, ICC/IF
GTX636976	Venezuelan Equine Encephalitis Virus nsP3 antibody [HL1502]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX637389	Venezuelan Equine Encephalitis Virus nsP4 antibody [HL1741]	Rec Rb mAb	WB, ICC/IF
GTX637298	Zika virus Envelope protein antibody [HL1699]	Rec Rb mAb	WB, ICC/IF
GTX638129	Zika virus NS2B protein antibody [HL2151]	Rec Rb mAb	WB
GTX637261	Zika virus NS4B protein antibody [HL1663]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX638132	Zika virus NS5 protein antibody [HL2154]	Rec Rb mAb	WB

Immunology Research

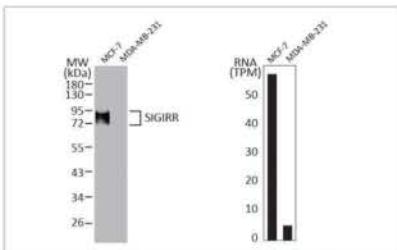
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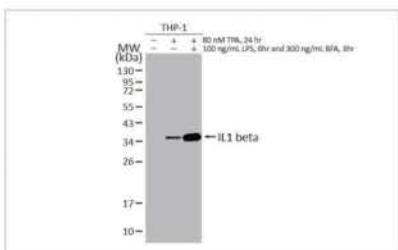
PAI2 antibody [HL2218] (GTX638222)



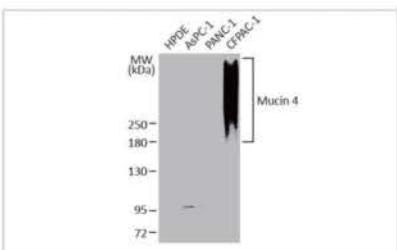
TLR3 antibody [HL2314] (GTX638477)



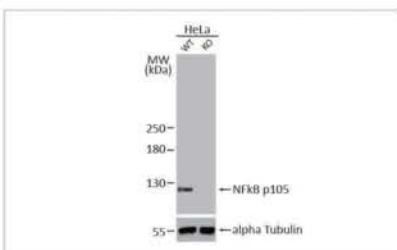
SIGIRR antibody [HL2008] (GTX637909)



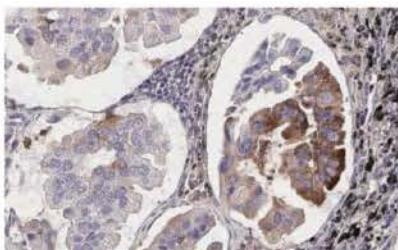
IL1 beta antibody [HL1421] (GTX636887)



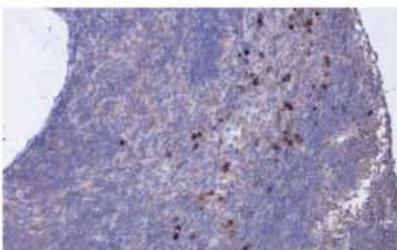
Mucin 4 antibody [HL1486] (GTX636960)



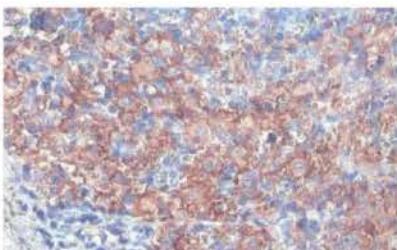
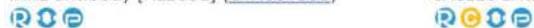
NFkB p105 antibody [HL1784] (GTX637436)



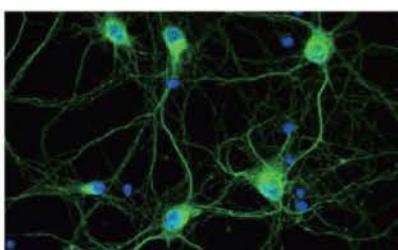
MX1 antibody [HL2051] (GTX637955)



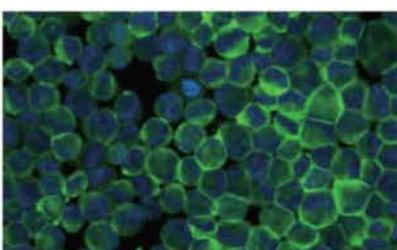
CXCL16 antibody [GT516] (GTX632502)



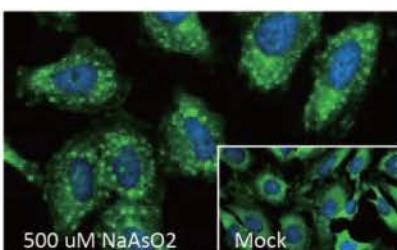
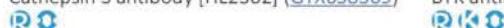
FCER1G antibody [HL1418] (GTX636884)



Cathepsin S antibody [HL2302] (GTX638369)



BTK antibody [HL1803] (GTX637455)



G3BP1 antibody [HL2254] (GTX638303)

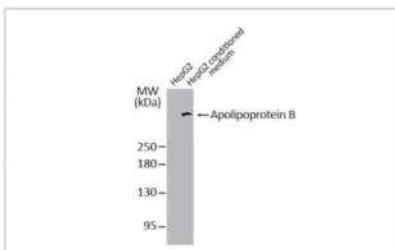


Immunology Research

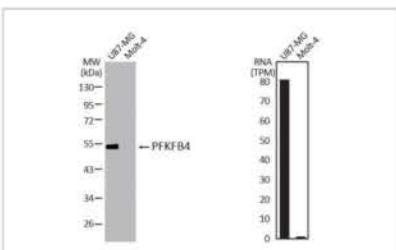
Cat. No.	Product Name	Clonality	Reactivity	Applications
P R GTX637441	ADAR1 antibody [HL1789]	Rec Rb mAb	Hu	WB, IHC-P
P C P R GTX636670	Alkaline phosphatase (intestinal) antibody [HL1268]	Rec Rb mAb	Hu,Ms	WB, IHC-P
P R GTX638176	BCA1 antibody [HL2172]	Rec Rb mAb	Hu	WB, IHC-P
C K P R GTX637455	BTK antibody [HL1803]	Rec Rb mAb	Hu,Ms	WB, ICC/IF
P R GTX636508	C1 inhibitor antibody [HL1196]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
P R GTX637294	C1qA antibody [HL1695]	Rec Rb mAb	Hu,Ms,Rat	WB
P R GTX637224	C3 antibody [HL1643]	Rec Rb mAb	Hu,Rat	WB, ICC/IF
C P R GTX638369	Cathepsin S antibody [HL2302]	Rec Rb mAb	Hu	WB, ICC/IF
C P R GTX637310	CD252 antibody [HL1711]	Rec Rb mAb	Hu	WB
P R GTX637068	CD28 antibody [HL1589]	Rec Rb mAb	Hu,Cat,Dog	WB, ICC/IF, IHC-P
C P R GTX637785	CD32B antibody [HL1948]	Rec Rb mAb	Hu,Rat	WB, ICC/IF, IHC-P
P R GTX637264	CD81 antibody [HL1666]	Rec Rb mAb	Hu	WB, ICC/IF
P R GTX637416	CD90 antibody [HL1766]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
P C C P R GTX632502	CXCL16 antibody [GT516]	Rec Ms mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
P C P R GTX636884	FCER1G antibody [HL1418]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, ICC/IF, IHC-P
C P R GTX638303	G3BP1 antibody [HL2254]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF
C P R GTX636896	Gasdermin D antibody [HL1430]	Rec Rb mAb	Hu	WB, IHC-P
C P R GTX638111	HLA-DQA1 antibody [HL2139]	Rec Rb mAb	Hu	WB, ICC/IF
R P R GTX637052	IKK gamma antibody [HL1577]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
C C P R GTX636887	IL1 beta antibody [HL1421]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, ELISA
C P R GTX637411	IL18 antibody [HL1761]	Rec Rb mAb	Hu	WB, IHC-P, ELISA
A P R GTX636473	IL6 antibody [HL1168]	Rec Rb mAb	Hu	WB, ELISA, Sandwich ELISA
C P R GTX638598	IL6 antibody [HL2389]	Rec Rb mAb	Hu	WB, IHC-P, ELISA
P R GTX636960	Mucin 4 antibody [HL1486]	Rec Rb mAb	Hu,Ms	WB, IHC-P
P C P R GTX637927	Mucin 4 X + Mucin 4 Y antibody [HL2026]	Rec Rb mAb	Hu	WB, ICC/IF
P C P R GTX637955	MX1 antibody [HL2051]	Rec Rb mAb	Hu,Ms	WB, IHC-P
C K P R GTX637436	NFKB p105 antibody [HL1784]	Rec Rb mAb	Hu	WB
C P R GTX638222	PAI2 antibody [HL2218]	Rec Rb mAb	Hu,Ms	WB, IHC-P
P R GTX637407	PIGR antibody [HL1757]	Rec Rb mAb	Hu	WB
C P R GTX638267	RelB antibody [HL2222]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
R P R GTX638544	RNase L antibody [HL2341]	Rec Rb mAb	Hu,Ms,Rat, Dog	WB
C A P R GTX636097	SARM1 antibody [HL1066]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
C P R GTX637909	SIGIRR antibody [HL2008]	Rec Rb mAb	Hu,Ms	WB, IHC-P
C P R GTX637889	SLC1A5 antibody [HL1988]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
C P R GTX638481	ST6GAL1 antibody [HL2318]	Rec Rb mAb	Hu	WB, IHC-P
C A P R GTX636089	TFEB antibody [HL1065]	Rec Rb mAb	Hu,Ms	WB, IHC-P
C P R GTX638477	TLR3 antibody [HL2314]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
P C P R GTX637058	TNF alpha antibody [HL1579]	Rec Rb mAb	Hu	WB
P R GTX635872	TREM2 (R47H Mutant) antibody [HL1032]	Rec Rb mAb	Hu	WB
P C P R GTX637386	TREM2 antibody [HL1738]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P
P R GTX637633	ZC3HAV1 antibody [HL1884]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P

Metabolism Research

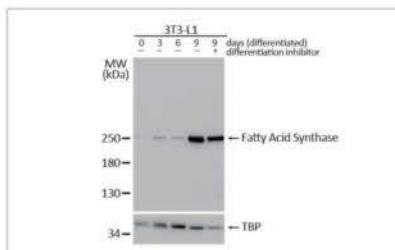
Highlighted Antibodies



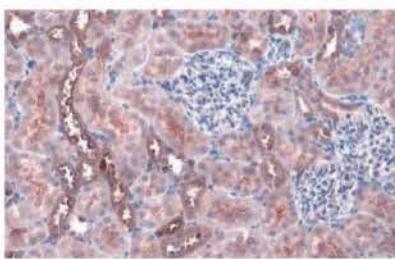
Apolipoprotein B antibody [HL1962] (GTX637799)



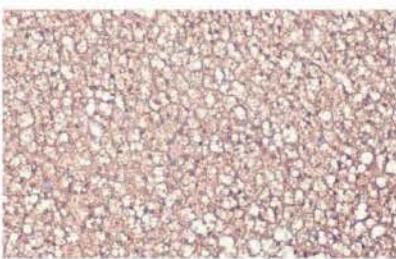
PFKFB4 antibody [HL2204] (GTX638208)



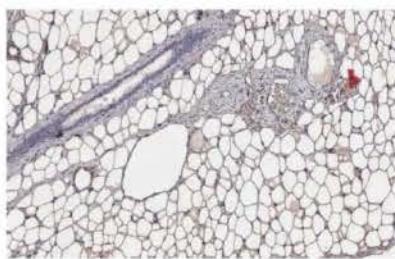
Fatty Acid Synthase antibody [HL2161] (GTX638139)



FACL4 antibody [HL229] (GTX635616)



FABP4 antibody [HL1521] (GTX636995)



Monoglyceride lipase antibody [HL1938] (GTX637775)

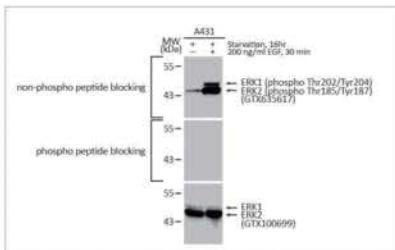
Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX637003	ACSL1 antibody [HL1530]	Rec Rb mAb	Hu,Ms,Rat	WB
GTX637799	Apolipoprotein B antibody [HL1962]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P, ELISA
GTX637640	Arginase 1 antibody [HL1891]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637397	C/EBP alpha antibody [HL1747]	Rec Rb mAb	Hu,Rat	WB, ICC/IF
GTX638316	COX4 antibody [HL2264]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX636463	C-Peptide antibody [HL1159]	Rec Rb mAb	Hu,Ms,Rat	IHC-P, ELISA
GTX637435	CYP24A1 antibody [HL1783]	Rec Rb mAb	Hu	WB
GTX637545	CYP27A1 antibody [HL1820]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638209	Cytochrome C antibody [HL2205]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX636995	FABP4 antibody [HL1521]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX635616	FACL4 antibody [HL229]	Rec Rb mAb	Hu,Ms,Rat,Dm	WB, ICC/IF, IHC-P
GTX638139	Fatty Acid Synthase antibody [HL2161]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638095	FDPS antibody [HL2123]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638268	FN3K antibody [HL2223]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637966	GAPDH antibody [HL2062]	Rec Rb mAb	Hu,Ms,Rat,Zfsh,Cat,Dog	WB, ICC/IF
GTX636422	Glucocorticoid Receptor antibody [HL1151]	Rec Rb mAb	Hu,Ms,Rat,Cat	WB, ICC/IF, IHC-P
GTX638096	GLUD1+ GLUD2 antibody [HL2124]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637796	GPD1 antibody [HL1959]	Rec Rb mAb	Hu,Ms,Rat,Zfsh,Dog	WB
GTX635477	GPX2 antibody [HL125]	Rec Rb mAb	Hu,Ms,Rat,Zfsh,Dog	WB, IHC-P
GTX638174	HAX1 antibody [HL2170]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX638293	IPMK antibody [HL2244]	Rec Rb mAb	Hu,Ms,Rat	WB
GTX637316	LASS2 antibody [HL1717]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P
GTX637960	LRP130 antibody [HL2056]	Rec Rb mAb	Hu	WB, ICC/IF

Metabolism Research

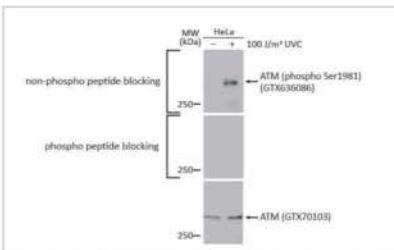
Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX637775	Monoglyceride lipase antibody [HL1938]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX638005	NDUFS3 antibody [HL2097]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637079	NDUFV1 antibody [HL1600]	Rec Rb mAb	Hu,Rat	WB, IHC-P
GTX637222	O-GlcNAc transferase antibody [HL1641]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX636728	Pancreatic Lipase antibody [HL1310]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638208	PFKFB4 antibody [HL2204]	Rec Rb mAb	Hu	WB
GTX637427	PGK1 + PGK2 antibody [HL1775]	Rec Rb mAb	Hu,Ms,Rat,Zfsh	WB, IHC-P
GTX637103	PI3 kinase C2 alpha antibody [HL1612]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, IHC-P
GTX636838	PI3 kinase p85 alpha antibody [HL1398]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637912	PIP5K1A antibody [HL2011]	Rec Rb mAb	Hu,Rat	WB, ICC/IF
GTX638308	RPLP2 antibody [HL2256]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX636335	SDHA antibody [HL1117]	Rec Rb mAb	Hu,Ms,Rat,Zfsh	WB, ICC/IF, IHC-P, IHC-Wm
GTX638300	SDHB antibody [HL2251]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637400	SESN1 antibody [HL1750]	Rec Rb mAb	Hu	WB, IHC-P
GTX638277	SLC27A2 antibody [HL2232]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637250	SOD1 antibody [HL1652]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, ICC/IF, IHC-P
GTX636957	SOD2 antibody [HL1483]	Rec Rb mAb	Hu,Zfsh	WB, IHC-P
GTX638596	SUCLG1 antibody [HL2387]	Rec Rb mAb	Hu,Ms,Rat,Zfsh,Cat,Dog	WB, IHC-P
GTX637282	TCEB1 antibody [HL1683]	Rec Rb mAb	Hu,Ms,Cat,Dog	WB, IHC-P
GTX636968	TOMM20 antibody [HL1494]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638089	TUFM antibody [HL2117]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637062	U2AF65 antibody [HL1583]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638372	VPS34 antibody [HL2305]	Rec Rb mAb	Hu,Ms,Rat	WB

Antibodies for Proteins with Post-translational Modifications

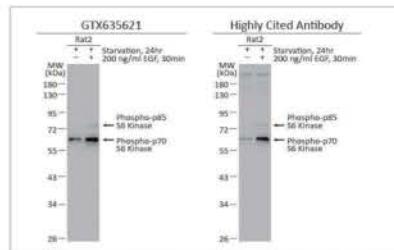
Highlighted Antibodies



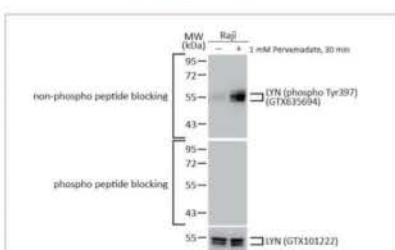
ERK1 (phospho Thr202/Tyr204) + ERK2 (phospho Thr185/Tyr187) antibody [HL173] (GTX635617)



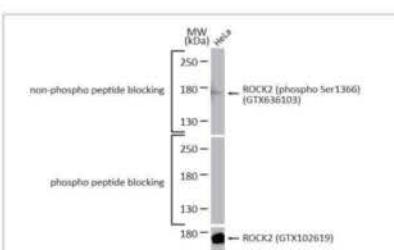
ATM (phospho Ser1981) antibody [HL1062] (GTX636086)



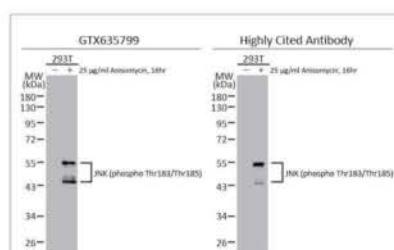
p70 S6K (phospho Thr421/Ser424) antibody [HL129] (GTX635621)



LYN (phospho Tyr397) antibody [HL122] (GTX635694)



ROCK2 (phospho Ser1366) antibody [HL1071] (GTX636103)



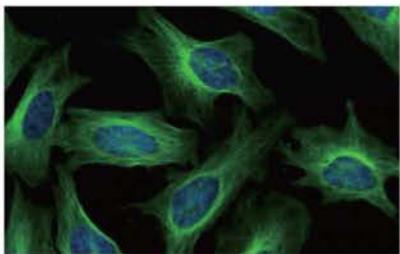
JNK (phospho Thr183/Tyr185) antibody [HL1008] (GTX635799)

Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX636086	ATM (phospho Ser1981) antibody [HL1062]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P
GTX635571	ATR (phospho Thr1989) antibody [HL132]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX635572	Chk1 (phospho Ser345) antibody [HL122]	Rec Rb mAb	Hu	WB, ICC/IF
GTX635617	ERK1 (phospho Thr202/Tyr204) + ERK2 (phospho Thr185/Tyr187) antibody [HL173]	Rec Rb mAb	Hu,Ms,Rat,Dm	WB, ICC/IF, IHC-P
GTX635714	FAK (phospho Tyr576) antibody [HL127]	Rec Rb mAb	Hu,Ms,Rat	WB
GTX635875	GRK2 (phospho Ser670) antibody [HL1035]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX636940	Her2 / ErbB2 (phospho Tyr1248) antibody [HL1466]	Rec Rb mAb	Hu,Rat	WB, ICC/IF, IHC-P
GTX636713	Histone H2A.XS139ph (phospho Ser139) antibody [HL1299]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX637288	Histone H2A.XS139ph (phospho Ser139) antibody [HL1689]	Rec Rb mAb	Zfsh	IHC-Wm
GTX636937	Histone H3K18ac (Acetyl Lys18) antibody [HL1463]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, Dot
GTX637402	Histone H3S10ph (phospho Ser10) antibody [HL1752]	Rec Rb mAb	Hu,Ms,Zfsh	WB, ICC/IF, IHC-P, IHC-Wm
GTX637634	IRE1 alpha (phospho Ser724) antibody [HL1885]	Rec Rb mAb	Hu	WB
GTX635799	JNK (phospho Thr183/Tyr185) antibody [HL1008]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX635694	LYN (phospho Tyr397) antibody [HL122]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX635621	p70 S6K (phospho Thr421/Ser424) antibody [HL129]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637309	Phospholamban (phospho Ser16) antibody [HL1710]	Rec Rb mAb	Ms	WB
GTX636681	PKC (pan) (zeta phospho Thr410) antibody [HL1279]	Rec Rb mAb	Hu,Ms,Rat,Dm	WB, ICC/IF, IHC-P
GTX636461	PKC theta (phospho Thr219) antibody [HL1157]	Rec Rb mAb	Hu	WB, ICC/IF
GTX636912	PKR (phospho Thr446) antibody [HL1439]	Rec Rb mAb	Hu	WB, ICC/IF
GTX636103	ROCK2 (phospho Ser1366) antibody [HL1071]	Rec Rb mAb	Hu	WB, ICC/IF
GTX636934	SOD2 (Acetyl Lys68) antibody [HL1460]	Rec Rb mAb	Hu,Ms	WB
GTX636938	STAT3 (phospho Tyr705) antibody [HL1464]	Rec Rb mAb	Hu,Rat	WB
GTX636678	Tau (phospho Thr217) antibody [HL1276]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, ELISA

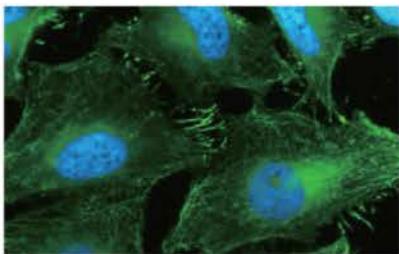
Recombinant Citation Support KO/KD Validation Comparable Abs Orthogonal Validation Protein Overexpression

Organelle Markers

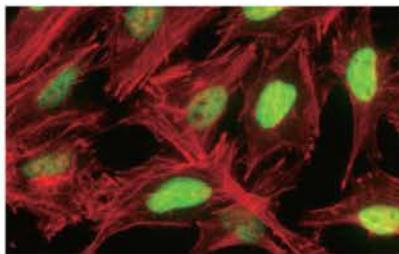
Highlighted Antibodies



alpha Tubulin antibody [HL2162] (GTx638140)



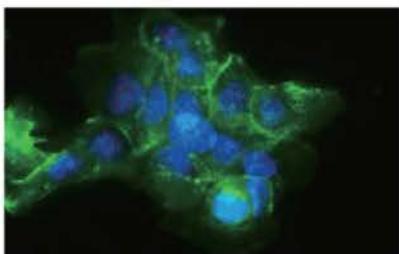
beta Catenin antibody [GT2169] (GTx633010)



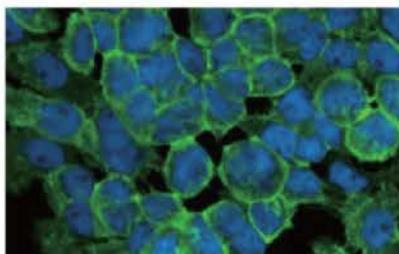
DNA ligase I antibody [10H5] (GTx70141)



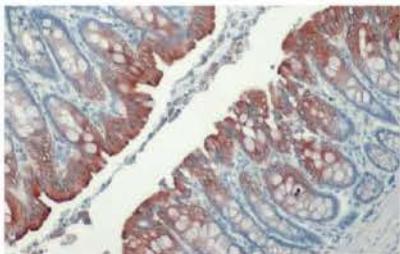
gamma Tubulin antibody [HL1175] (GTx636480)



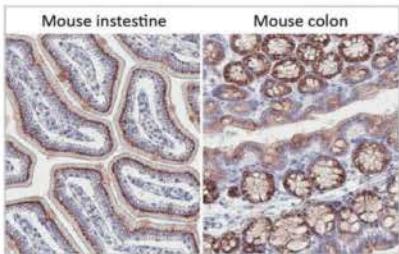
Sodium/Potassium ATPase alpha 1 antibody [HL114] (GTx635461)



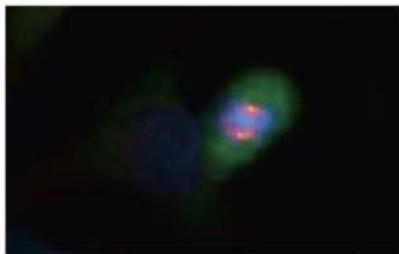
ZO-1 antibody [HL1185] (GTx636491)



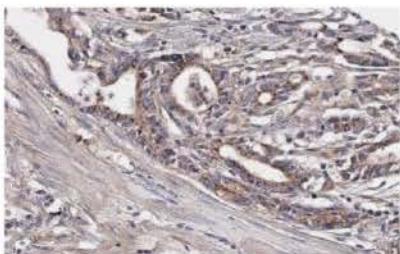
Cytokeratin 19 antibody [HL1165] (GTx636469)



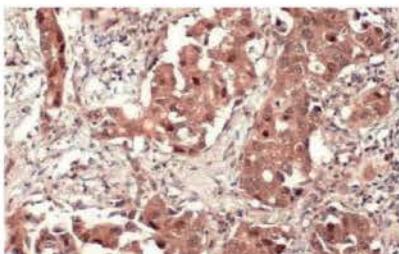
GALNT6 antibody [HL2392] (GTx638601)



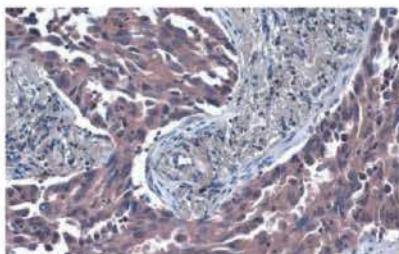
MFF antibody [HL1311] (GTx636729)



mtTFA antibody [HL2012] (GTx637913)



SQSTM1 / P62 antibody [HL1113] (GTx636328)



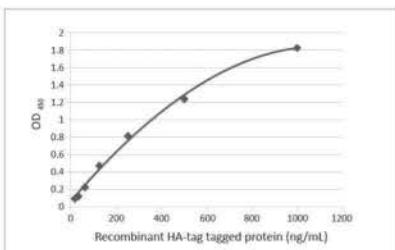
TSG101 antibody [4A10] (GTx70255)

Organelle Markers

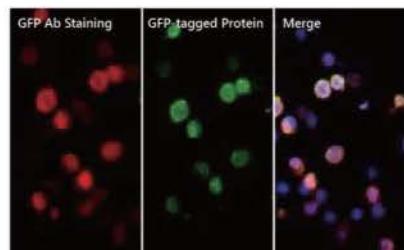
Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX638580	Actin antibody [HL2372]	Rec Rb mAb	Hu	WB
GTX637983	ALP / PDLM3 antibody [HL2075]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638140	alpha Tubulin antibody [HL2162]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF
GTX638119	Annexin A1 antibody [HL2141]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX636734	ATP6V1H antibody [HL1316]	Rec Rb mAb	Hu,Ms,Dm	WB, IHC-P
GTX637675	beta Actin antibody [HL1926]	Rec Rb mAb	Hu,Ms,Rat,Zfsh,Dm,Cat,Dog	WB, ICC/IF, IHC-P
GTX633010	beta Catenin antibody [GT2169]	Rec Ms mAb	Hu,Ms,Dog	WB, ICC/IF, IHC-P
GTX637077	Calnexin antibody [HL1598]	Rec Rb mAb	Ms,Rat,Cat,Dog	WB, IHC-P
GTX637961	Calreticulin antibody [HL2057]	Rec Rb mAb	Hu	WB
GTX636468	CPT1A antibody [HL1164]	Rec Rb mAb	Hu,Ms,Cat,Dog	WB, IHC-P
GTX636469	Cytokeratin 19 antibody [HL1165]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX70141	DNA ligase I antibody [10H5]	Rec Ms mAb	Hu,Ms	WB, ICC/IF, IHC-P, IP
GTX637408	EIF6 antibody [HL1758]	Rec Rb mAb	Hu,Ms,Rat,Zfsh	WB, IHC-P
GTX638601	GALNT6 antibody [HL2392]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX636480	gamma Tubulin antibody [HL1175]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, ICC/IF
GTX637059	Hsp70 antibody [HL1580]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, ICC/IF, IHC-P
GTX636657	Integrin beta 1 / CD29 antibody [HL1255]	Rec Rb mAb	Hu,Ms,Cat,Dog	WB, IHC-P
GTX637048	KPNA3 antibody [HL1573]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638556	LAT1 / SLC7A5 antibody [HL2353]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX636729	MFF antibody [HL1311]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX636825	Mre11 antibody [HL1385]	Rec Rb mAb	Hu,Dog	WB, IHC-P
GTX637913	mtTFA antibody [HL2012]	Rec Rb mAb	Hu	WB, IHC-P
GTX636570	Nucleoporin p62 antibody [HL1226]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638094	OTC antibody [HL2122]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637858	PCNA antibody [HL1965]	Rec Rb mAb	Hu,Ms,Rat,Zfsh,Cat,Dog	WB
GTX636971	RAB5A antibody [HL1497]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, IHC-P
GTX635461	Sodium/Potassium ATPase alpha 1 antibody [HL114]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX636328	SQSTM1 / P62 antibody [HL1113]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637128	STAM antibody [HL1635]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX637784	SUN1 antibody [HL1947]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX70255	TSG101 antibody [4A10]	Rec Ms mAb	Hu,Ms,Rat,Zfsh,Dog,Hm,Pig,Mk	WB, ICC/IF, IHC-P, FACS, IP, ELISA, EM, IHC, IHC (Free Floating)
GTX636491	ZO-1 antibody [HL1185]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF

Epitope Tag, Reporter, and Carrier Antibodies

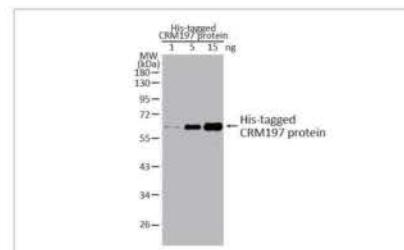
Highlighted Antibodies



HA tag antibody [HL1603] (GTX637082)



GFP antibody [HL1845] (GTX637570)



CRM197 antibody [HL1808] (GTX637460)



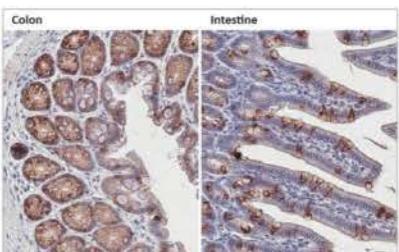
Cat. No.	Product Name	Clonality	Applications
GTX637566	CBP tag antibody [HL1841]	Rec Rb mAb	WB, ICC/IF
GTX637460	CRM197 antibody [HL1808]	Rec Rb mAb	WB
GTX638142	Firefly Luciferase antibody [HL2164]	Rec Rb mAb	WB, ICC/IF
GTX637570	GFP antibody [HL1845]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX637082	HA tag antibody [HL1603]	Rec Rb mAb	WB, ICC/IF, ELISA, IHC-P (cell pellet)
GTX636956	mCherry antibody [HL1482]	Rec Rb mAb	WB, ICC/IF, IHC-P (cell pellet)
GTX635825	PEG (methoxy group) antibody [HL1020]	Rec Rb mAb	WB, ELISA
GTX637929	RFP antibody [HL2028]	Rec Rb mAb	WB, ICC/IF
GTX636653	Strep epitope Tag antibody [HL1251]	Rec Rb mAb	WB, ICC/IF, IP, IHC-P (cell pellet)
GTX636326	BrdU antibody [HL1111]	Rec Rb mAb	ICC/IF, IHC-P

Selected Recombinant Antibodies

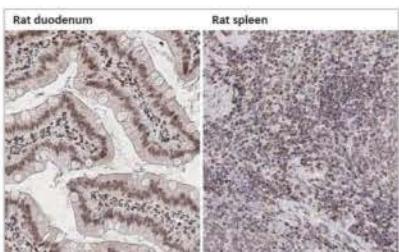
Highlighted Antibodies



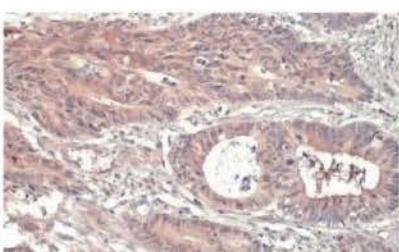
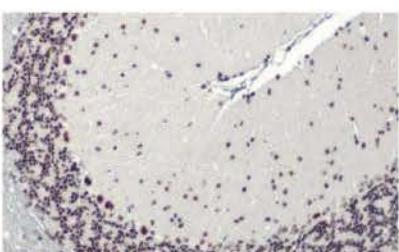
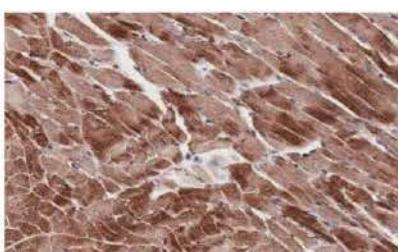
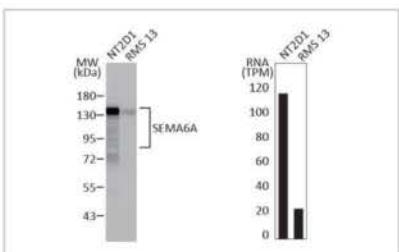
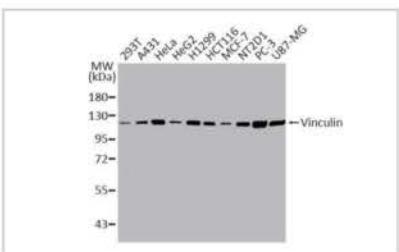
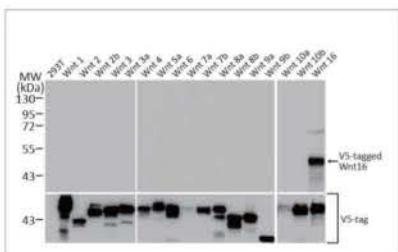
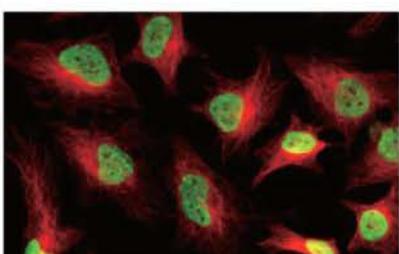
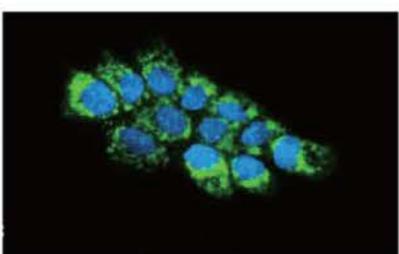
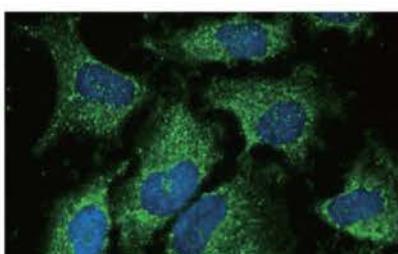
alpha Smooth Muscle Actin antibody [HL1419] (GTX636885)



Anterior Gradient 2 antibody [HL1024] (GTX635838)



UHRF1 antibody [HL2287] (GTX638342)



Selected Recombinant Antibodies

Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX637885	AHR antibody [HL1984]	Rec Rb mAb	Hu,Ms	WB, ICC/IF
GTX636885	alpha Smooth Muscle Actin antibody [HL1419]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638218	Angiogenin antibody [HL2214]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX635838	Anterior Gradient 2 antibody [HL1024]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX636575	Artemis antibody [HL1227]	Rec Rb mAb	Hu	WB, ICC/IF
GTX636696	BRD9 antibody [HL1282]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637556	CaMKII antibody [HL1831]	Rec Rb mAb	Hu,Ms,Rat,Dm	WB, ICC/IF, IHC-P
GTX638312	CARD10 antibody [HL2260]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX636963	Cardiac Troponin I antibody [HL1489]	Rec Rb mAb	Hu,Ms,Rat,Cat	WB, IHC-P
GTX638136	CASC5 antibody [HL2158]	Rec Rb mAb	Hu	WB
GTX637906	Caspase 1 antibody [HL2005]	Rec Rb mAb	Hu	WB
GTX638201	CBP antibody [HL2197]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638307	CDC25C antibody [HL2255]	Rec Rb mAb	Hu	WB
GTX636873	CDK4 antibody [HL1407]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637970	CHD2 antibody [HL2066]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637424	Collagen II antibody [HL1772]	Rec Rb mAb	Hu	WB
GTX638223	Cyclin D1 antibody [HL2219]	Rec Rb mAb	Hu	WB, IHC-P
GTX636961	DDX4 antibody [HL1487]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638333	DNA ligase III antibody [HL2280]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX636986	DNA polymerase beta antibody [HL1512]	Rec Rb mAb	Hu,Ms,Rat,Zfsh	WB, ICC/IF, IHC-P
GTX636527	DUT antibody [HL1210]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P
GTX637028	eIF4E antibody [HL1553]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638144	Eosinophil derived neurotoxin antibody [HL2166]	Rec Rb mAb	Hu	WB, IHC-P
GTX638311	ETS2 antibody [HL2259]	Rec Rb mAb	Hu,Ms	WB, ICC/IF
GTX636835	Fibrinogen gamma antibody [HL1395]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637274	Frizzled 9 antibody [HL1675]	Rec Rb mAb	Hu	WB
GTX637426	FRS2 antibody [HL1774]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638314	GADD153 antibody [HL2262]	Rec Rb mAb	Hu	WB, ICC/IF, IHC-P
GTX637767	Gelsolin antibody [HL1930]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF
GTX638329	GPS2 antibody [HL2276]	Rec Rb mAb	Hu	WB
GTX636766	GSPT1 antibody [HL1346]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, ICC/IF, IHC-P
GTX638202	HES1 antibody [HL2198]	Rec Rb mAb	Hu	WB, ICC/IF
GTX637862	HHIP antibody [HL1969]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX637773	HMGA2 antibody [HL1936]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637963	HMGB1 antibody [HL2059]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, ELISA
GTX637305	hnRNP A2B1 antibody [HL1706]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX636833	Insulin antibody [HL1393]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637918	ISG15 antibody [HL2017]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF
GTX636666	ITK antibody [HL1264]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX637013	KAP1 antibody [HL1539]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637379	KDM6A antibody [HL1731]	Rec Rb mAb	Hu,Cat,Dog	WB, ICC/IF, IHC-P
GTX638146	LGALS3BP antibody [HL2168]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX637019	MCL1 antibody [HL1544]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, IHC-P
GTX637942	METTL1 antibody [HL2041]	Rec Rb mAb	Hu	WB, ICC/IF
GTX637541	METTL14 antibody [HL1816]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637023	Miz1 antibody [HL1548]	Rec Rb mAb	Hu	WB, ICC/IF
GTX638279	MLK4 antibody [HL2234]	Rec Rb mAb	Hu	WB
GTX636768	NEK7 antibody [HL1348]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX637995	OAT antibody [HL2087]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX636483	PARP14 antibody [HL1178]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX636983	PARP3 antibody [HL1509]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX638109	Pepsinogen I antibody [HL2137]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF

Selected Recombinant Antibodies

Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX637968	Peregrin antibody [HL2064]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX638084	Periostin antibody [HL2112]	Rec Rb mAb	Hu	WB
GTX637951	PODXL antibody [HL2047]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX637647	Pogz antibody [HL1898]	Rec Rb mAb	Hu	WB
GTX637276	PP1 antibody [HL1677]	Rec Rb mAb	Hu	WB
GTX636919	PP2A alpha antibody [HL1447]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, ICC/IF, IHC-P
GTX637433	PPP2R1A antibody [HL1781]	Rec Rb mAb	Hu,Ms,Rat	WB
GTX638175	Rad21 antibody [HL2171]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637589	RAI3 antibody [HL1864]	Rec Rb mAb	Hu	WB, IHC-P
GTX638299	RIP antibody [HL2250]	Rec Rb mAb	Hu	WB, IHC-P
GTX638350	RNF31 antibody [HL2295]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX635976	RPB2 antibody [HL1042]	Rec Rb mAb	Hu,Ms,Rat,Zfsh,Cat,Dog	WB, IHC-P, IHC-Wm
GTX636579	RRM1 antibody [HL1231]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, ICC/IF, IHC-P
GTX636634	RRM2 antibody [HL1235]	Rec Rb mAb	Hu,Ms,Zfsh	WB, ICC/IF, IHC-P
GTX638215	RUNX1 antibody [HL2211]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637220	SCRIB antibody [HL1639]	Rec Rb mAb	Hu	WB, IHC-P
GTX637637	SEK1 / MKK4 antibody [HL1888]	Rec Rb mAb	Hu	WB
GTX638092	SEMA6A antibody [HL2120]	Rec Rb mAb	Hu,Ms,Rat	WB
GTX637551	SEMA7A antibody [HL1826]	Rec Rb mAb	Hu	WB
GTX637226	SETDB1 antibody [HL1645]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX636927	SHB antibody [HL1455]	Rec Rb mAb	Hu,Ms	WB, IHC-P
GTX637984	Shh antibody [HL2076]	Rec Rb mAb	Hu,Ms,Rat	WB
GTX637993	SHP1 antibody [HL20845]	Rec Rb mAb	Hu	WB, ICC/IF
GTX636330	SMARCA2 antibody [HL1115]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX637311	TAB2 antibody [HL1712]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637302	TAL1 antibody [HL1703]	Rec Rb mAb	Hu	WB
GTX637958	TBC1D5 antibody [HL2054]	Rec Rb mAb	Hu	WB
GTX637273	TFI-I antibody [HL1674]	Rec Rb mAb	Hu	WB, ICC/IF
GTX637550	Thrombomodulin antibody [HL1825]	Rec Rb mAb	Hu	WB
GTX636635	Thymidylate synthase antibody [HL1236]	Rec Rb mAb	Hu,Ms,Rat,Cat,Dog	WB, ICC/IF, IHC-P
GTX637401	TNIK antibody [HL1751]	Rec Rb mAb	Hu	WB
GTX636672	Transgelin antibody [HL1270]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637578	TRIM72 antibody [HL1853]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX637258	UBE3A antibody [HL1660]	Rec Rb mAb	Hu	WB
GTX638342	UHRF1 antibody [HL2287]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX638210	ULK2 antibody [HL2206]	Rec Rb mAb	Hu,Rat	WB, ICC/IF
GTX637555	Villin antibody [HL1830]	Rec Rb mAb	Hu	WB
GTX637622	Vinculin antibody [HL1873]	Rec Rb mAb	Hu,Ms,Rat,Zfsh,Cat,Dog	WB, IHC-P
GTX637318	VIRMA antibody [HL1719]	Rec Rb mAb	Hu	WB, ICC/IF
GTX637962	VWF antibody [HL2058]	Rec Rb mAb	Hu	WB
GTX638188	WNK1 antibody [HL2184]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P
GTX638576	Wnt10b antibody [HL2370]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX636972	Wnt16 antibody [HL1498]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX637043	Wnt6 antibody [HL1568]	Rec Rb mAb	Hu,Rat	WB, ICC/IF, IHC-P
GTX637024	Wnt8b antibody [HL1549]	Rec Rb mAb	Hu	WB
GTX637377	WRN antibody [HL1729]	Rec Rb mAb	Hu	WB, IHC-P
GTX637587	YTHDC2 antibody [HL1862]	Rec Rb mAb	Hu,Ms	WB, ICC/IF, IHC-P
GTX636775	YTHDF2 antibody [HL1355]	Rec Rb mAb	Hu,Ms,Rat	WB, ICC/IF, IHC-P, IP
GTX638280	YTHDF3 antibody [HL2235]	Rec Rb mAb	Hu,Ms,Rat	WB, IHC-P
GTX636914	ZC3H12A antibody [HL1442]	Rec Rb mAb	Hu,Cat	WB

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