RAS (G12D Mutant) antibody [HL10]

Cat. No. GTX635362

Host	Rabbit
Clonality	Monoclonal
Isotype	IgG
Applications	WB, IHC-P
Reactivity	Human, Mouse

References (19)

Review (5)

Package
100 µl, 25 µl

PRODUCT

Summary KRAS has the distinction of being a preeminent oncoprotein as it is mutated in more than 85% of RAS-altered cancers. The RAS (G12D Mutant) antibody [HL10] is the first commercially available recombinant antibody that demonstrates exceptional specificity by paraffin-embedded immunohistochemistry and western blot for the RAS G12D mutant protein.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500-1:3000
IHC-P	1:25-1:100

Note : Suggest using high sensitivity ECL for optimization. GTX14698 Trident femto Western HRP Substrate is recommended.

Not tested in other applications.

Observed MW (kDa)	22 kDa.
Product Note	Based on internal testing, this antibody specifically recognizes RAS G12D mutant and does not cross-react with wild-type RAS or the G12V, G12R, G12C, G12A, or G12S mutants.

Properties

Form	Liquid
Buffer	PBS
Preservative	No preservatives
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	1.5 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Carrier-protein conjugated synthetic peptide surrounding mutant G12D of human K-Ras. The exact sequence is proprietary.
Purification	Affinity purified by Protein A.

For full product information, images and publications, please visit our website.

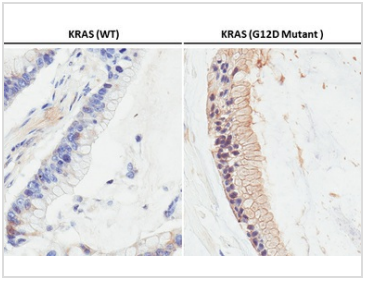
GeneTex, Inc. (North America)
1-877-436-3839 (Toll-free) 1-949-309-2888 sales@genetex.com

GeneTex International Corporation (Global)
886-3-6208988 886-3-6208989 infoasia@genetex.com

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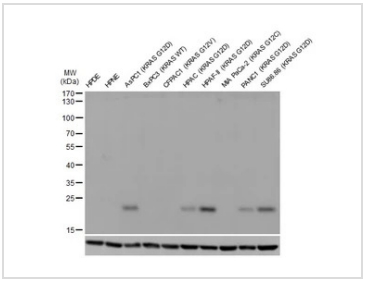
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES



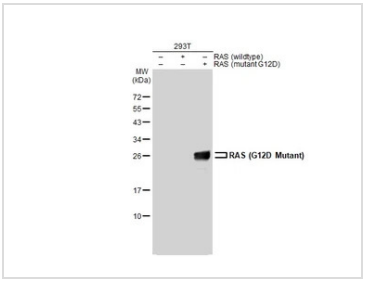
GTX635362 IHC-P Image

RAS (G12D Mutant) antibody [HL10] detects RAS (G12D Mutant) protein by immunohistochemical analysis.
Sample: Paraffin-embedded human wild-type (left) and KRAS G12D mutant (right) pancreatic tumor.
RAS (G12D Mutant) stained by RAS (G12D Mutant) antibody [HL10] (GTX635362) diluted at 1:50.



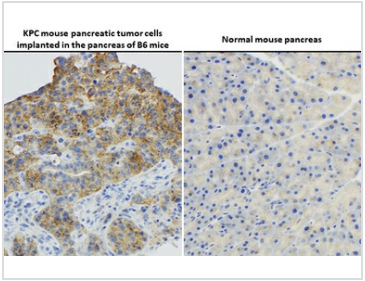
GTX635362 WB Image

Various whole cell extracts were separated by SDS-PAGE, and the membrane was blotted with RAS (G12D Mutant) antibody [HL10] (GTX635362) diluted at 1:1000.



GTX635362 WB Image

Non-transfected (–) and transfected (+) Various whole cell extracts (30 µg) were separated by 12% SDS-PAGE, and the membrane was blotted with RAS (G12D Mutant) antibody [HL10] (GTX635362) diluted at 1:3000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



GTX635362 IHC-P Image

RAS (G12D Mutant) antibody [HL10] detects RAS (G12D Mutant) protein at by immunohistochemical analysis.
Sample: Paraffin-embedded KPC mouse pancreatic tumor cells implanted in the pancreas of B6 mice (left) and normal mouse pancreas (right).
RAS (G12D Mutant) stained by RAS (G12D Mutant) antibody [HL10] (GTX635362) diluted at 1:75.
Antigen Retrieval: Citrate buffer, pH 6.0, 40 min

For full product information, images and publications, please visit our website.

GeneTex, Inc. (North America)
1-877-436-3839 (Toll-free) 1-949-309-2888 sales@genetex.com

GeneTex International Corporation (Global)
886-3-6208988 886-3-6208989 infoasia@genetex.com

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