

GTX300079

Autophagosome Marker Antibody Panel

Product Content

Cat No	Product Name	Reactivity	Applications	Package
GTX124181	ATG12 antibody	Human, Mouse, Rat	WB, ICC/IF, IHC-P, IP	25 µl
GTX132453	WIPI2 antibody	Human, Rat	WB, ICC/IF, IHC-P	25 µl
GTX213110-01	Goat Anti-Rabbit IgG antibody (HRP)	Rabbit	WB, IHC-P, ELISA	25 µl
GTX636328	SQSTM1 / P62 antibody [HL1113]	Human, Mouse, Rat	WB, ICC/IF, IHC-P	25 µl
GTX639686	LC3B antibody [HL2798]	Human, Mouse, Rat, Zebrafish	WB, ICC/IF, IHC-P	25 µl

Note

For In vitro laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



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ATG12 antibody

Cat. No. GTX124181

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Applications	WB, ICC/IF, IHC-P, IP
Reactivity	Human, Mouse, Rat

References (16)

Package

100 µl, 25 µl

Applications

Application Note

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

Suggested dilution	Recommended dilution
WB	1:500-1:3000
ICC/IF	Assay dependent
IHC-P	1:100-1:1000
IP	1:100-1:500

Not tested in other applications.

Calculated MW 15 kDa. ([Note](#))

Properties

Form	Liquid
Buffer	PBS, 20% Glycerol
Preservative	0.025% ProClin 300
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1.43 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Recombinant protein encompassing a sequence within the center region of human ATG12. The exact sequence is proprietary.
Purification	Purified by antigen-affinity chromatography.
Conjugation	Unconjugated



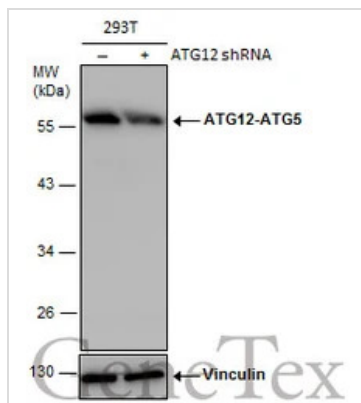
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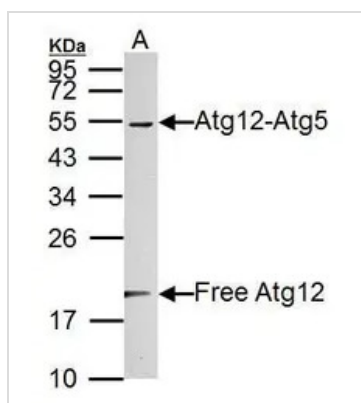
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Note

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DATA IMAGES

GTx124181 WB Image

Non-transfected (-) and transfected (+) 293T whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with ATG12 antibody (GTx124181) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (GTx213110-01) was used to detect the primary antibody.


GTx124181 WB Image

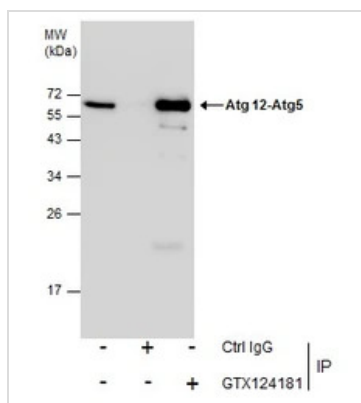
Sample (30 µg of whole cell lysate)

A: NIH-3T3

12% SDS PAGE

GTx124181 diluted at 1:1000

The HRP-conjugated anti-rabbit IgG antibody (GTx213110-01) was used to detect the primary antibody.


GTx124181 IP Image

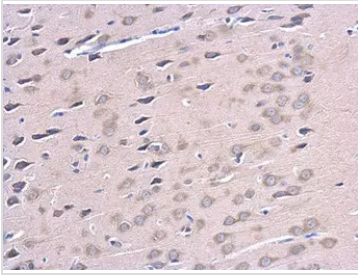
Immunoprecipitation of Atg 12-Atg5 protein from 293T whole cell extracts using 5 µg of ATG12 antibody (GTx124181).

Western blot analysis was performed using ATG12 antibody (GTx124181) diluted at 1:1000.

EasyBlot anti-Rabbit IgG (GTx221666-01) was used as a secondary reagent.



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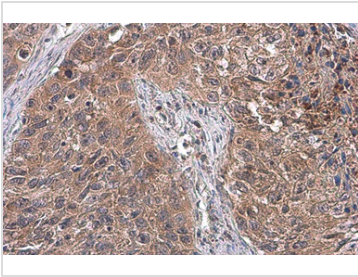

GTX124181 IHC-P Image

ATG12 antibody detects ATG12 protein at cytoplasm in rat brain by immunohistochemical analysis.

Sample: Paraffin-embedded rat brain.

ATG12 antibody (GTX124181) diluted at 1:500.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

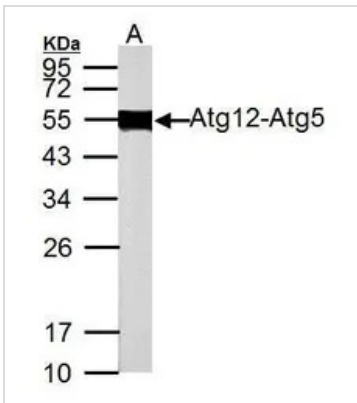

GTX124181 IHC-P Image

ATG12 antibody detects ATG12 protein at cytoplasm by immunohistochemical analysis.

Sample: Paraffin-embedded human lung cancer.

ATG12 stained by ATG12 antibody (GTX124181) diluted at 1:500.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min


GTX124181 WB Image

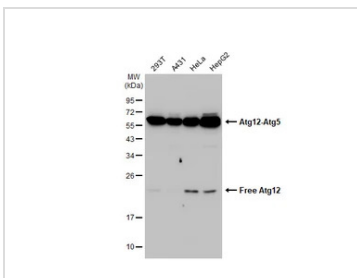
Sample (50 µg of whole cell lysate)

A: Rat brain

12% SDS PAGE

GTX124181 diluted at 1:1000

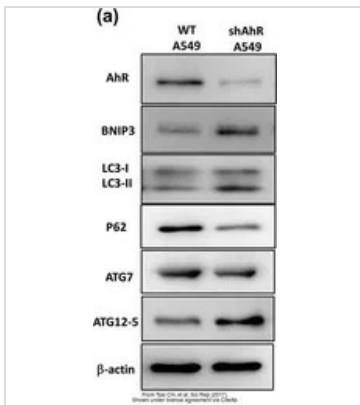
The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.


GTX124181 WB Image

Various whole cell extracts (30 µg) were separated by 12% SDS-PAGE, and the membrane was blotted with ATG12 antibody (GTX124181) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

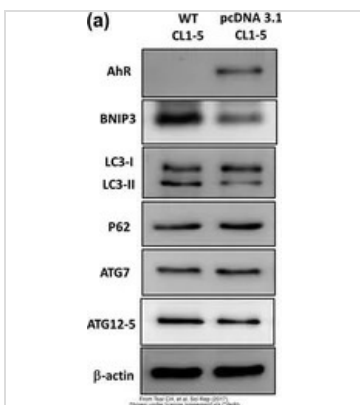


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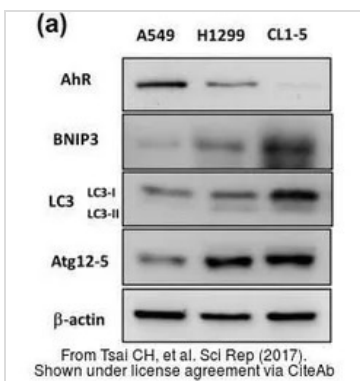
GTx124181 WB Image

The data was published in the journal Sci Rep in 2017. [PMID: 28195146](https://pubmed.ncbi.nlm.nih.gov/28195146/)



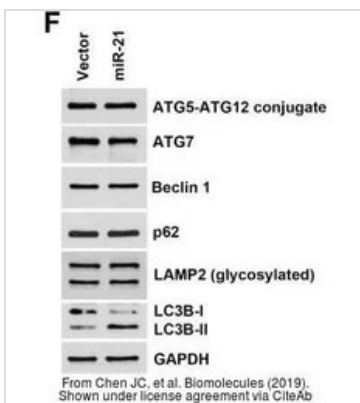
GTx124181 WB Image

The data was published in the journal Sci Rep in 2017. [PMID: 28195146](https://pubmed.ncbi.nlm.nih.gov/28195146/)



GTx124181 WB Image

The data was published in the journal Sci Rep in 2017. [PMID: 28195146](https://pubmed.ncbi.nlm.nih.gov/28195146/)

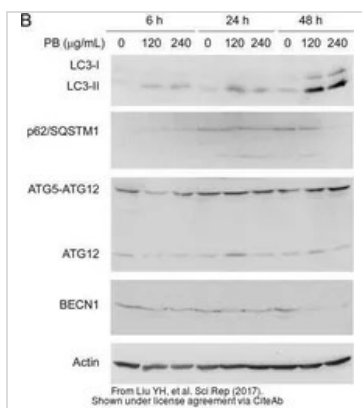


GTx124181 WB Image

The data was published in the journal Biomolecules in 2019. [PMID: 31505885](https://pubmed.ncbi.nlm.nih.gov/31505885/)



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GTx124181 WB Image

The data was published in the journal Sci Rep in 2017. [PMID: 28134285](https://pubmed.ncbi.nlm.nih.gov/28134285/)



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WIPI2 antibody

Cat. No. GTX132453

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Applications	WB, ICC/IF, IHC-P
Reactivity	Human, Rat

References (2)

Package

100 µl, 25 µl

Applications

Application Note

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

Suggested dilution	Recommended dilution
WB	1:500-1:3000
ICC/IF	1:100-1:1000
IHC-P	1:100-1:1000

Not tested in other applications.

Calculated MW 49 kDa. ([Note](#))

Product Note KO/KD validation is based on published data (PMID: 36280710).

Properties

Form	Liquid
Buffer	PBS, 20% Glycerol
Preservative	0.025% ProClin 300
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	0.57 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human WIPI2. The exact sequence is proprietary.
Purification	Purified by antigen-affinity chromatography.
Conjugation	Unconjugated



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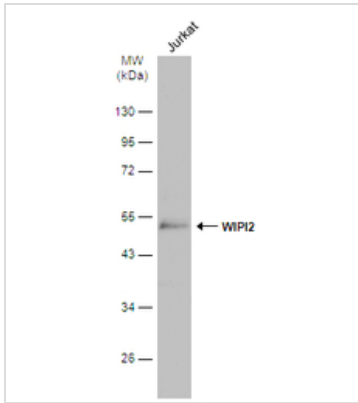
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Note

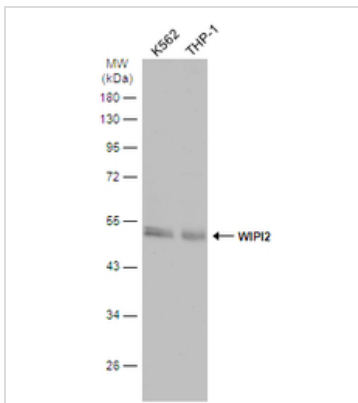
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DATA IMAGES



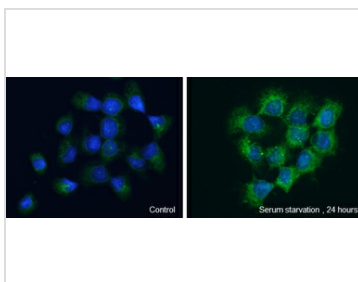
GTX132453 WB Image

Various whole cell extracts (30 µg) was separated by 10% SDS-PAGE, and the membrane was blotted with WIPI2 antibody (GTX132453) diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



GTX132453 WB Image

Various whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with WIPI2 antibody (GTX132453) diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



GTX132453 ICC/IF Image

WIPI2 antibody detects WIPI2 protein at Preautophagosomal structure membrane by immunofluorescent analysis.

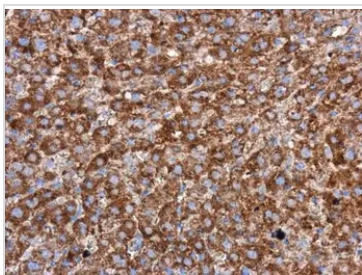
Sample: A431 cells were fixed in ice-cold MeOH for 5 min.

Green: WIPI2 protein stained by WIPI2 antibody (GTX132453) diluted at 1:2500.

Blue: Hoechst 33342 staining.



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GTX132453 IHC-P Image

WIPI2 antibody detects WIPI2 protein at cytoplasm in rat liver by immunohistochemical analysis.

Sample: Paraffin-embedded rat liver.

WIPI2 antibody (GTX132453) diluted at 1:500.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



For full product information, images and publications, please visit our [website](#).

Goat Anti-Rabbit IgG antibody (HRP)

Cat. No. GTX213110-01

Host	Goat
Clonality	Polyclonal
Isotype	IgG
Applications	WB, IHC-P, ELISA
Reactivity	Rabbit

References (654)

Package

1 ml

Applications

Application Note

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

Suggested dilution	Recommended dilution
WB	1:5000-1:20000
IHC-P	1:100-1:1000
ELISA	1:5000-1:20000

Not tested in other applications.

Properties

Form	Liquid
Buffer	0.05M Tris, 0.15M NaCl
Preservative	0.025% ProClin 300
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	0.2 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Highly purified whole rabbit IgG
Purification	Purified by antigen-affinity chromatography.
Conjugation	Horseradish peroxidase(HRP)

Note

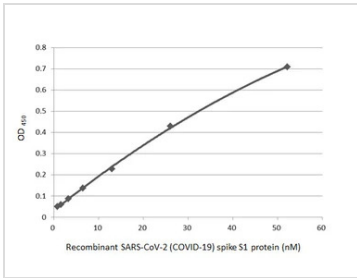
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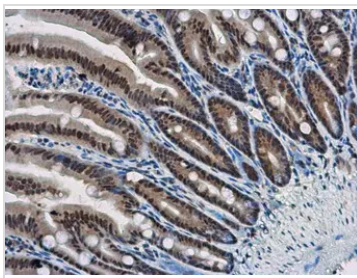
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DATA IMAGES



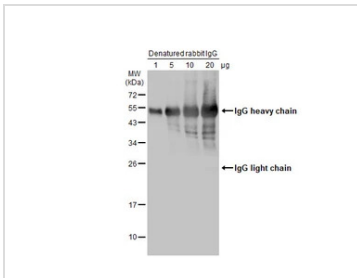
GTx213110-01 ELISA Image

Indirect ELISA analysis performed by coating plate with recombinant SARS-CoV-2 (COVID-19) Spike S1 protein, His tag (active) (GTx135817-pro) (52.15-0.81 nM). Coated protein was probed with SARS-CoV-2 (COVID-19) Spike S1 antibody [HL134] (GTx635671) (1 µg/mL). Goat anti-rabbit IgG antibody (HRP) (GTx213110-01) (1:10000) was used to detect bound primary antibody.



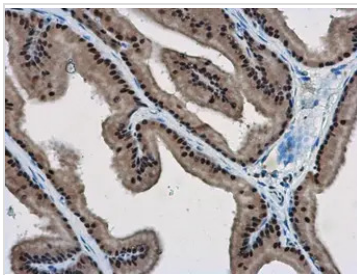
GTx213110-01 IHC-P Image

WBP11 antibody detects WBP11 protein at nucleus in mouse intestine by immunohistochemical analysis.
Sample: Paraffin-embedded mouse intestine.
WBP11 antibody (GTx118654) diluted at 1:500.
The signal was developed by Rabbit IgG antibody (HRP) (GTx213110-01)
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



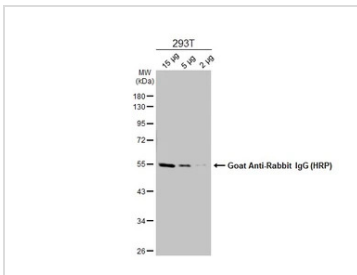
GTx213110-01 WB Image

Various amounts of denatured rabbit IgG protein were separated by 12% SDS-PAGE, and the membrane was blotted with HRP-conjugated anti-rabbit IgG antibody (GTx213110-01) diluted at 1:5000.



GTx213110-01 IHC-P Image

WBP11 antibody detects WBP11 protein at nucleus in rat prostate by immunohistochemical analysis.
Sample: Paraffin-embedded rat prostate.
WBP11 antibody (GTx118654) diluted at 1:500.
The signal was developed by Rabbit IgG antibody (HRP) (GTx213110-01).
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

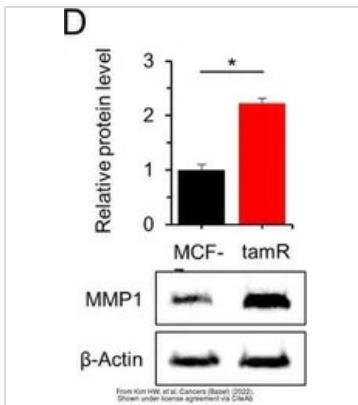


GTx213110-01 WB Image

Various whole cell extracts were separated by 10% SDS-PAGE, and the membrane was blotted with alpha Tubulin antibody (GTx112141) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody (GTx213110-01) was used to detect the primary antibody.

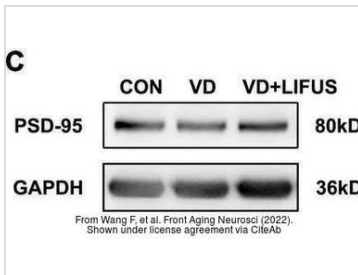


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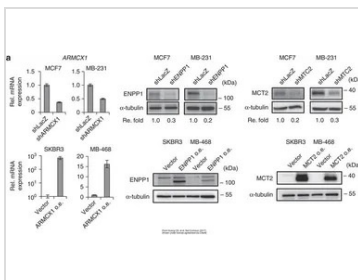
GTX213110-01 WB Image

The data was published in the 2022 in Cancers (Basel). [PMID: 35267540](#)



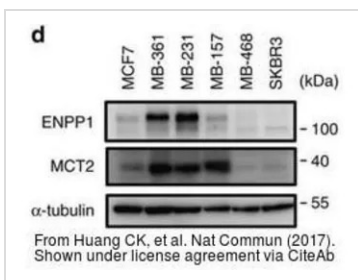
GTX213110-01 WB Image

The data was published in the 2022 in Front Aging Neurosci. [PMID: 35264943](#)



GTX213110-01 WB Image

The data was published in the 2017 in Nat Commun. [PMID: 28281525](#)

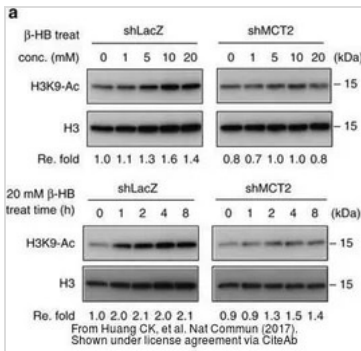


GTX213110-01 WB Image

The data was published in the 2017 in Nat Commun. [PMID: 28281525](#)

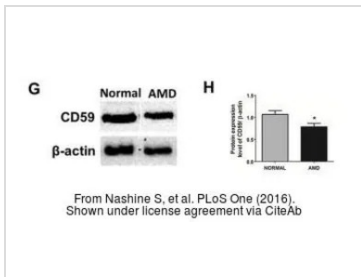


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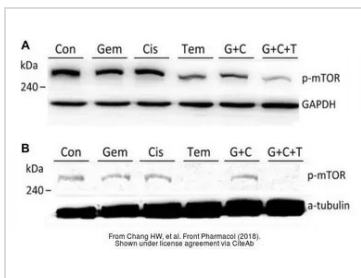
GTx213110-01 WB Image

The data was published in the 2017 in Nat Commun. [PMID: 28281525](#)



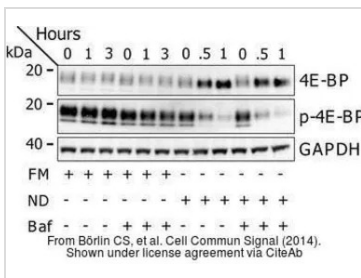
GTx213110-01 WB Image

The data was published in the 2016 in PLoS One. [PMID: 27486856](#)



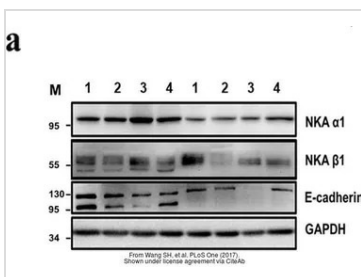
GTx213110-01 WB Image

The data was published in the journal Front Pharmacol in 2018. [PMID: 30087612](#)



GTx213110-01 WB Image

The data was published in the journal Cell Commun Signal in 2014. [PMID: 25214434](#)

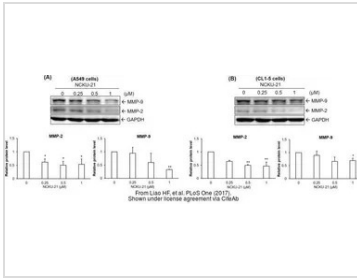


GTx213110-01 WB Image

The data was published in the journal PLoS One in 2017. [PMID: 28832634](#)

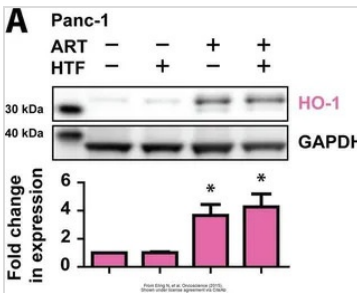


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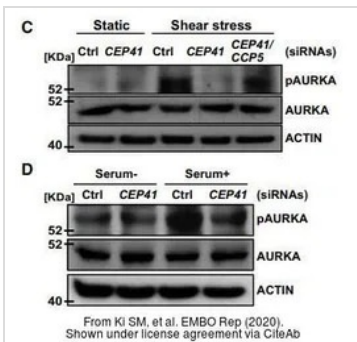
GTx213110-01 WB Image

The data was published in the journal PLoS One in 2017. [PMID: 28945763](#)



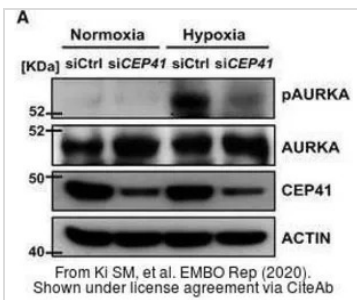
GTx213110-01 WB Image

The data was published in the journal Oncoscience in 2015. [PMID: 26097885](#)



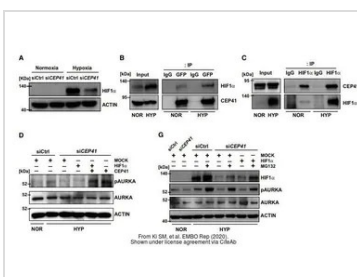
GTx213110-01 WB Image

The data was published in the journal EMBO Rep in 2020. [PMID: 31885126](#)



GTx213110-01 WB Image

The data was published in the journal EMBO Rep in 2020. [PMID: 31885126](#)



GTx213110-01 WB Image

The data was published in the journal EMBO Rep in 2020. [PMID: 31885126](#)



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SQSTM1 / P62 antibody [HL1113]

Cat. No. GTX636328

Host	Rabbit
Clonality	Monoclonal
Isotype	IgG
Applications	WB, ICC/IF, IHC-P
Reactivity	Human, Mouse, Rat

References (2)

★★★★★ Review (1)

Package

100 µl, 25 µl

Applications

Application Note

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

Suggested dilution	Recommended dilution
WB	1:1000-1:10000
ICC/IF	Assay dependent
IHC-P	1:100-1:1000

Not tested in other applications.

Observed MW (kDa) 62 kDa.

Properties

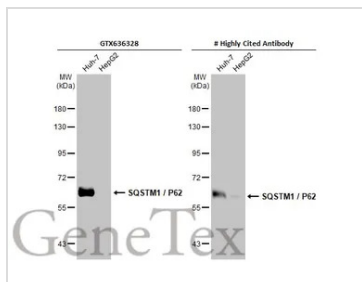
Form	Liquid
Buffer	PBS
Preservative	No preservatives
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the center region of human SQSTM1 / P62. The exact sequence is proprietary.
Purification	Affinity purified by Protein A.
Conjugation	Unconjugated

Note

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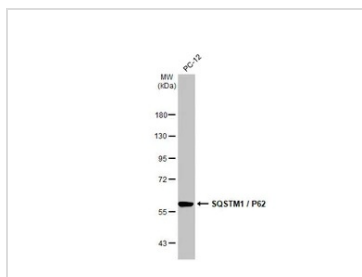
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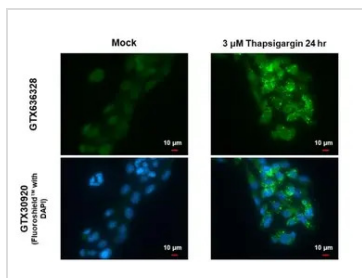
DATA IMAGES

GTX636328 WB Image

Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membranes were blotted with SQSTM1 / P62 antibody [HL1113] (GTX636328) diluted at 1:10000 and competitor's antibody (# Highly Cited Antibody) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

*The competitor is not affiliated with GeneTex and does not endorse this product.


GTX636328 WB Image

Whole cell extract (30 µg) was separated by 7.5% SDS-PAGE, and the membrane was blotted with SQSTM1 / P62 antibody [HL1113] (GTX636328) diluted at 1:30000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

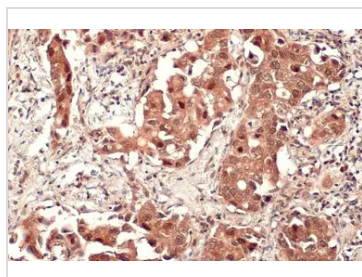

GTX636328 ICC/IF Image

SQSTM1 / P62 antibody [HL1113] detects SQSTM1 / P62 protein at autophagosome by immunofluorescent analysis.

Sample: HepG2 cells were fixed in ice-cold MeOH for 5 min.

Green: SQSTM1 / P62 stained by SQSTM1 / P62 antibody [HL1113] (GTX636328) diluted at 1:500.

Blue: Fluoroshield with DAPI (GTX30920).

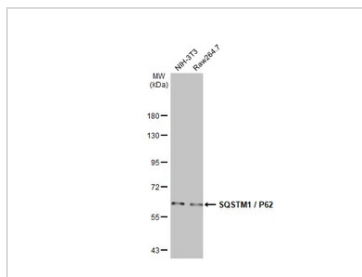

GTX636328 IHC-P Image

SQSTM1 / P62 antibody [HL1113] detects SQSTM1 / P62 protein at cell membrane by immunohistochemical analysis.

Sample: Paraffin-embedded human lung cancer.

SQSTM1 / P62 stained by SQSTM1 / P62 antibody [HL1113] (GTX636328) diluted at 1:100.

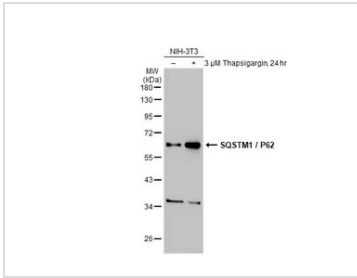
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min


GTX636328 WB Image

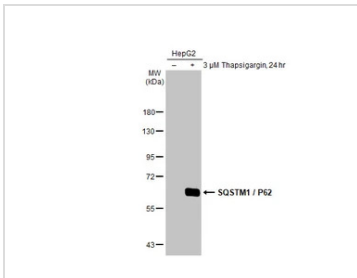
Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with SQSTM1 / P62 antibody [HL1113] (GTX636328) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



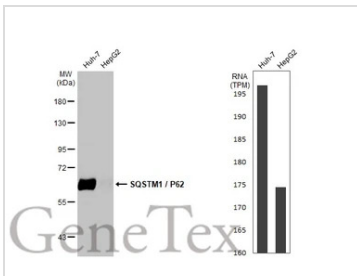
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GTX636328 WB Image

Untreated (-) and treated (+) NIH-3T3 whole cell extracts (30 μg) were separated by 10% SDS-PAGE, and the membrane was blotted with SQSTM1 / P62 antibody [HL1113] (GTX636328) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.


GTX636328 WB Image

Untreated (-) and treated (+) HepG2 whole cell extracts (30 μg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with SQSTM1 / P62 antibody [HL1113] (GTX636328) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.


GTX636328 WB Image

Various whole cell extracts (30 μg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with SQSTM1 / P62 antibody [HL1113] (GTX636328) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody. Corresponding RNA expression data for the same cell lines are based on Human Protein Atlas program.



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LC3B antibody [HL2798]

Cat. No. GTX639686

Host	Rabbit
Clonality	Monoclonal
Isotype	IgG
Applications	WB, ICC/IF, IHC-P
Reactivity	Human, Mouse, Rat, Zebrafish

Package
100 µl, 25 µl

Applications

Application Note

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

Suggested dilution	Recommended dilution
WB	1:500-1:3000
ICC/IF	Assay dependent
IHC-P	Assay dependent

Not tested in other applications.

Observed MW (kDa) 16 (LC3BI), 14 (LC3BII, autophagosome marker) kDa.

Product Note This antibody may not be suitable for zebrafish ICC/IF / IHC-P assay, as its zebrafish reactivity is based on WB testing.

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 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Synthetic peptide of human LC3B.
Purification	Affinity purified by Protein A.
Conjugation	Unconjugated

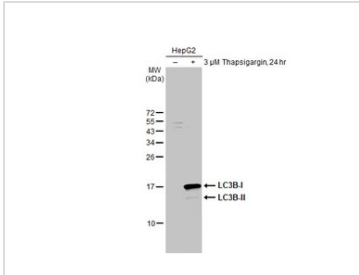


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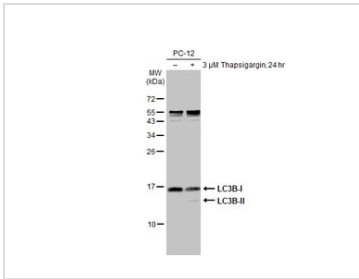
For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

Note

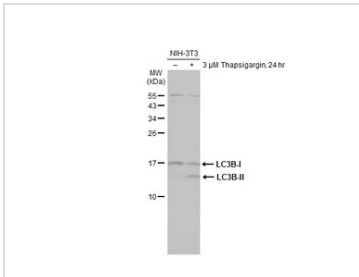
Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES

GTX639686 WB Image

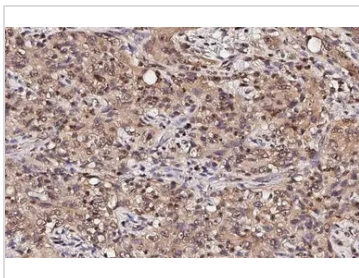
Untreated (–) and treated (+) HepG2 whole cell extracts (30 μg) were separated by 15% SDS-PAGE, and the membrane was blotted with LC3B antibody [HL2798] (GTX639686) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.


GTX639686 WB Image

Untreated (–) and treated (+) PC-12 whole cell extracts (30 μg) were separated by 15% SDS-PAGE, and the membrane was blotted with LC3B antibody [HL2798] (GTX639686) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.


GTX639686 WB Image

Untreated (–) and treated (+) NIH-3T3 whole cell extracts (30 μg) were separated by 15% SDS-PAGE, and the membrane was blotted with LC3B antibody [HL2798] (GTX639686) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.


GTX639686 IHC-P Image

LC3B antibody [HL2798] detects LC3B protein at cytoplasm by immunohistochemical analysis.

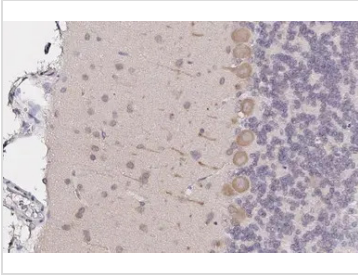
Sample: Paraffin-embedded human lung cancer.

LC3B stained by LC3B antibody [HL2798] (GTX639686) diluted at 1:100.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



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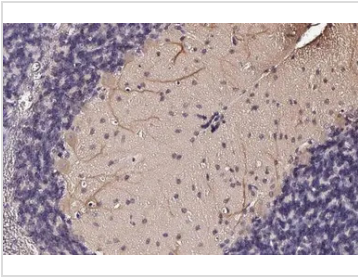

GTX639686 IHC-P Image

LC3B antibody [HL2798] detects LC3B protein at cytoplasm by immunohistochemical analysis.

Sample: Paraffin-embedded rat cerebellum.

LC3B stained by LC3B antibody [HL2798] (GTX639686) diluted at 1:100.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

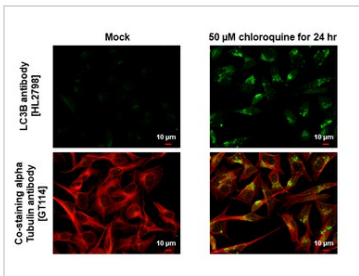

GTX639686 IHC-P Image

LC3B antibody [HL2798] detects LC3B protein at cytoplasm by immunohistochemical analysis.

Sample: Paraffin-embedded mouse cerebellum.

LC3B stained by LC3B antibody [HL2798] (GTX639686) diluted at 1:100.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

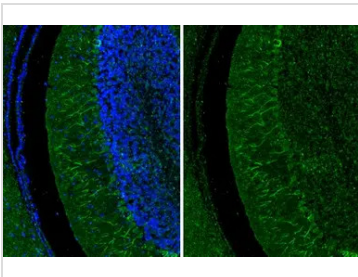

GTX639686 ICC/IF Image

LC3B antibody [HL2798] detects LC3B protein at autophagosome weak by immunofluorescent analysis.

Sample: Mock and treated HeLa cells were fixed in ice-cold MeOH for 5 min.

Green: LC3B stained by LC3B antibody [HL2798] (GTX639686) diluted at 1:1500.

Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] (GTX628802) diluted at 1:1000.


GTX639686 IHC-P Image

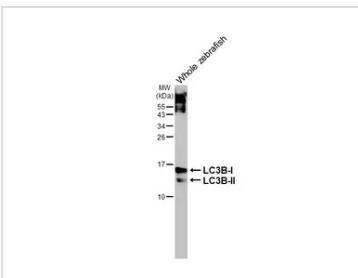
LC3B antibody [HL2798] detects LC3B protein at cytoplasm by immunohistochemical analysis.

Sample: Paraffin-embedded human cerebellum.

Green: LC3B stained by LC3B antibody [HL2798] (GTX639686) diluted at 1:100.

Blue: Fluoroshield with DAPI (GTX30920).

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min


GTX639686 WB Image

Whole cell extract (30 µg) was separated by 15% SDS-PAGE, and the membrane was blotted with LC3B antibody [HL2798] (GTX639686) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody, and the signal was developed with Trident femto Western HRP Substrate.



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