GTX300103

Antibody panel for autophagy

Product Content

Cat No	Product Name	Reactivity	Applications	Package
GTX100685	SQSTM1 / P62 antibody [N3C1], Internal	Human, Mouse, Rat, Bovine, Honeybee, Mosquito	WB, ICC/IF, IHC-P, FCM, IP, PLA	10 µl
GTX213110-01	Goat Anti-Rabbit IgG antibody (HRP)	Rabbit	WB, IHC-P, ELISA	25 µl
GTX639686	LC3B antibody [HL2798]	Human, Mouse, Rat, Zebrafish	WB, ICC/IF, IHC-P	10 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.

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

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SQSTM1 / P62 antibody [N3C1], Internal

Cat. No. GTX100685

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

References (120)

Review (6)

Package
100 µl, 25 µl

PRODUCT

Summary SQSTM1 antibody, also known as ubiquitin-binding protein p62 antibody, detects the SQSTM1 protein that interacts with LC3 proteins to execute autophagosomal degradation. SQSTM1 is also reported to regulate the activation of NFκB1 downstream signaling in addition to having other cellular functions.

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
FCM	Assay dependent
IP	1:100-1:500
PLA	Assay dependent

Note : Permeabilization : 0.1% saponin

Not tested in other applications.

Calculated MW 48 kDa. (Note)

Properties

Form	Liquid
Buffer	PBS, 1% BSA, 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 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	0.39 mg/ml (Please refer to the vial label for the specific concentration.)

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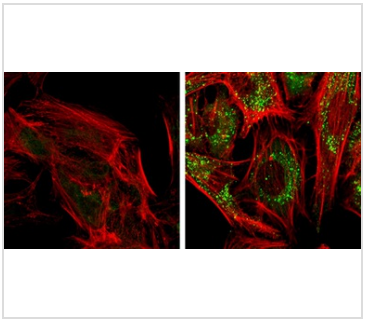
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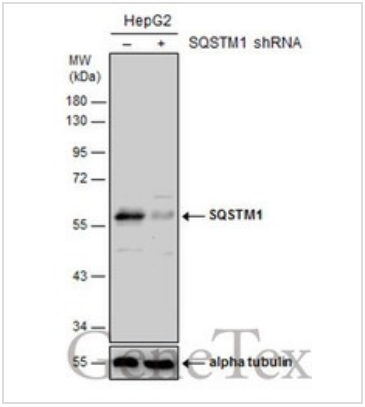
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the center region of human SQSTM1 / P62. The exact sequence is proprietary.
Purification	Purified by antigen-affinity chromatography.
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, 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



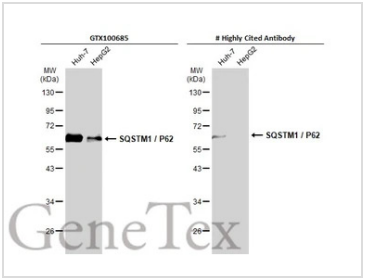
GTX100685 ICC/IF Image

SQSTM1 antibody [N3C1], Internal detects SQSTM1 protein at autophagosome by immunofluorescent analysis.
Samples: HeLa cells mock (left) and treated with 50µM Chloroquine for 24 hr (right) were fixed in 4% paraformaldehyde at RT for 15 min.
Green: SQSTM1 protein stained by SQSTM1 antibody [N3C1], Internal (GTX100685) diluted at 1:1000.
Red: Phalloidin, a F-actin marker.



GTX100685 WB Image

Non-transfected (–) and transfected (+) HepG2 whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with SQSTM1 antibody [N3C1], Internal (GTX100685) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



GTX100685 WB Image

Various whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with SQSTM1 / P62 antibody [N3C1], Internal (GTX100685) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

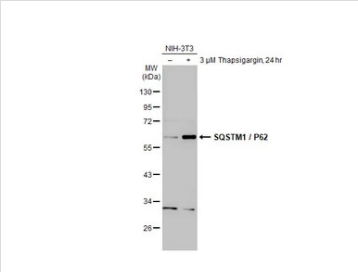
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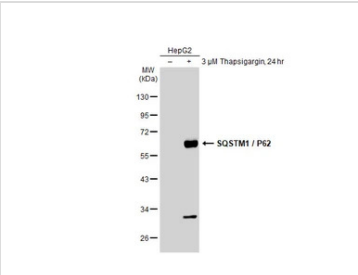
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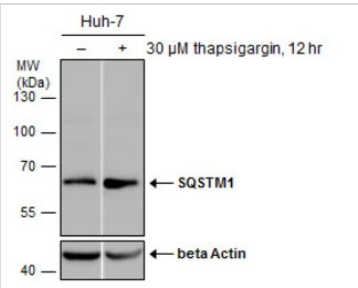
GTX100685 WB Image

Untreated (–) and treated (+) NIH-3T3 whole cell extract (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with SQSTM1 / P62 antibody [N3C1], Internal (GTX100685) diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.



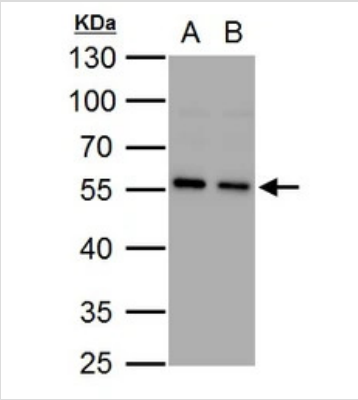
GTX100685 WB Image

Untreated (–) and treated (+) HepG2 whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with SQSTM1 / P62 antibody [N3C1], Internal (GTX100685) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



GTX100685 WB Image

Untreated (–) and treated (+) Huh-7 whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with SQSTM1 antibody [N3C1], Internal (GTX100685) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



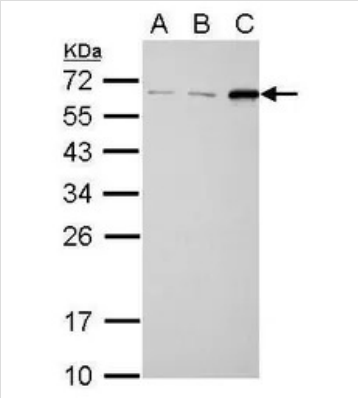
GTX100685 WB Image

SQSTM1 antibody [N3C1], Internal detects SQSTM1 protein by western blot analysis.
A. 30 µg PC-12 whole cell lysate/extract
B. 30 µg Rat2 whole cell lysate/extract
10% SDS-PAGE
SQSTM1 antibody [N3C1], Internal (GTX100685) dilution: 1:1000
The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

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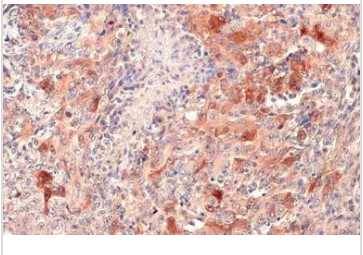
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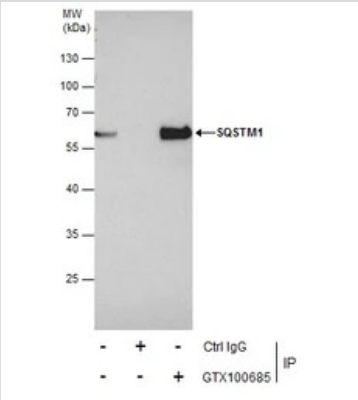
GTX100685 WB Image

SQSTM1 antibody [N3C1], Internal detects SQSTM1 protein by western blot analysis.
A. 30 µg NIH-3T3 whole cell lysate/extract
B. 30 µg JC whole cell lysate/extract
C. 30 µg BCL-1 whole cell lysate/extract
12% SDS-PAGE
SQSTM1 antibody [N3C1], Internal (GTX100685) dilution: 1:1000
The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



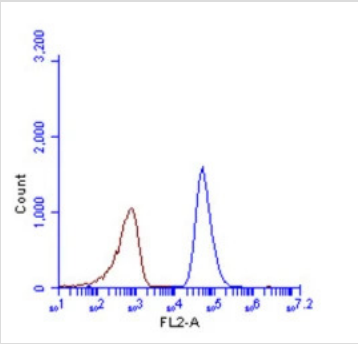
GTX100685 IHC-P Image

SQSTM1 / P62 antibody [N3C1], Internal detects SQSTM1 / P62 protein at cytoplasm by immunohistochemical analysis.
Sample: Paraffin-embedded human lung cancer.
SQSTM1 / P62 stained by SQSTM1 / P62 antibody [N3C1], Internal (GTX100685) diluted at 1:500.
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



GTX100685 IP Image

Immunoprecipitation of SQSTM1 protein from HeLa whole cell extracts using 5 µg of SQSTM1 antibody [N3C1], Internal (GTX100685).
Western blot analysis was performed using SQSTM1 antibody [N3C1], Internal (GTX100685).
EasyBlot anti-Rabbit IgG (GTX221666-01) was used as a secondary reagent.

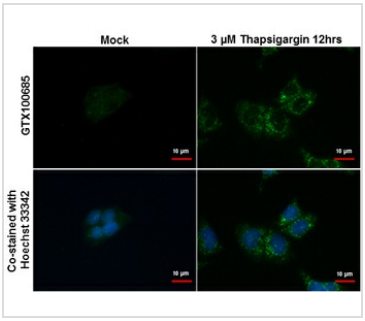


GTX100685 FCM Image

SQSTM1 antibody [N3C1], Internal (GTX100685) detects SQSTM1 protein by flow cytometry analysis.
Sample: HeLa cell fixed in 4% paraformaldehyde at 4oC for 5 min.
Brown: Unlabelled sample was also used as a control.
Blue: SQSTM1 antibody [N3C1], Internal] (GTX100685) dilution: 1:100.
Acquisition of >20,000 events were collected using Argon ion laser (488nm) and 525/30 bandpass filter.

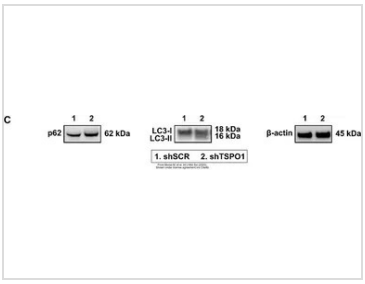
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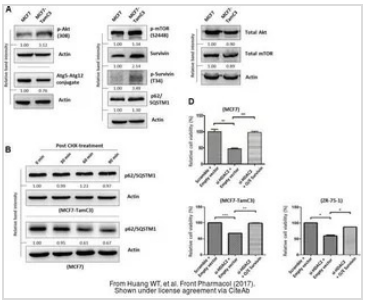
GTX100685 ICC/IF Image

SQSTM1 antibody [N3C1], Internal detects SQSTM1 protein at autophagosome by immunofluorescent analysis.
Samples: HepG2 cells treated with 3μM thapsigargin 12 hrs (rigtht) and mock (left) were fixed in ice-cold MeOH for 10 min, permeabilize with cooled acetone for 1 min .
Green: SQSTM1 protein stained by SQSTM1 antibody [N3C1], Internal (GTX100685) diluted at 1:500.
Blue: Hoechst 33342 staining.
Scale bar = 10 μm.



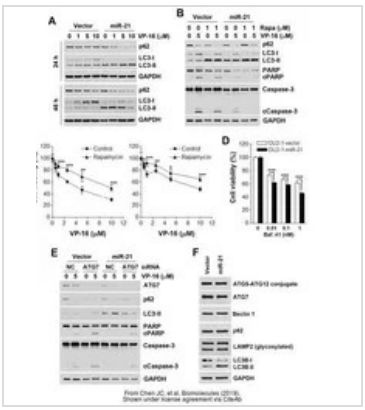
GTX100685 WB Image

The data was published in the 2020 in Int J Mol Sci. PMID: 33260618



GTX100685 WB Image

The data was published in the journal Front Pharmacol in 2017.PMID: 29326587



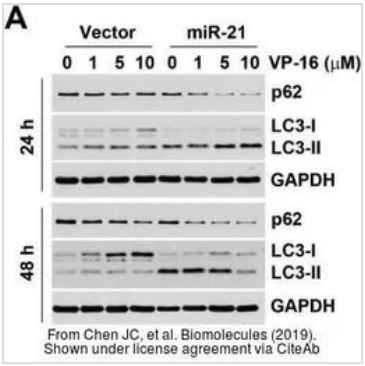
GTX100685 WB Image

The data was published in the journal Biomolecules in 2019.PMID: 31505885

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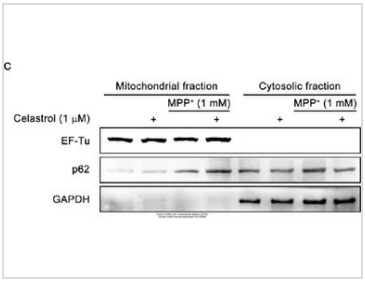
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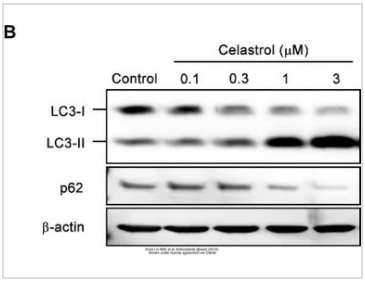
GTX100685 WB Image

The data was published in the journal Biomolecules in 2019.PMID: 31505885



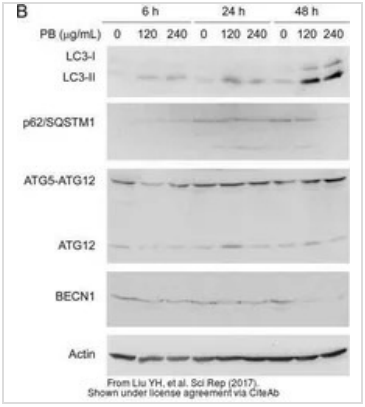
GTX100685 WB Image

The data was published in the journal Antioxidants (Basel) in 2019.PMID: 31906147



GTX100685 WB Image

The data was published in the journal Antioxidants (Basel) in 2019.PMID: 31906147



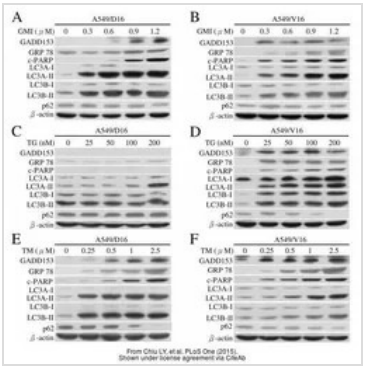
GTX100685 WB Image

The data was published in the journal Sci Rep in 2017. PMID: 28134285

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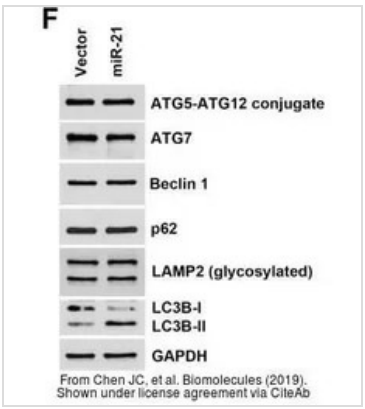
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GTX100685 WB Image

The data was published in the journal PLoS One in 2015.PMID: 25946033



GTX100685 WB Image

The data was published in the journal Biomolecules in 2019.PMID: 31505885

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Goat Anti-Rabbit IgG antibody (HRP)

Cat. No. GTX213110-01

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

References (668)
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 4ºC. For long-term storage, aliquot and store at -20ºC 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	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.

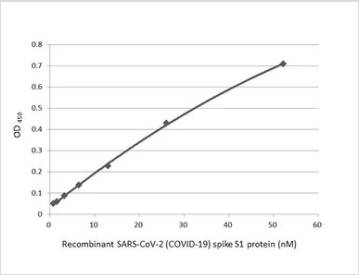
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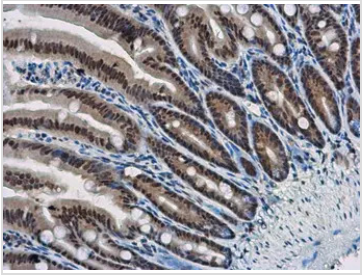
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DATA IMAGES



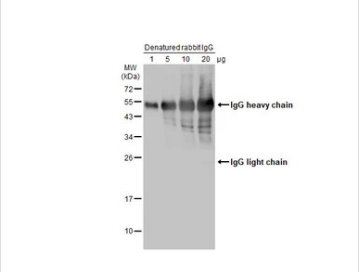
GTX213110-01 ELISA Image

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.



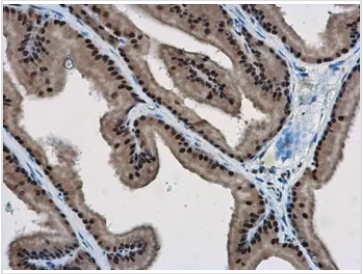
GTX213110-01 IHC-P Image

WBP11 antibody detects WBP11 protein at nucleus in mouse intestine by immunohistochemical analysis.
Sample: Paraffin-embeddedmouse intestine.
WBP11 antibody (GTX118654) diluted at 1:500.
The signal was developed byRabbit IgG antibody (HRP) (GTX213110-01)
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



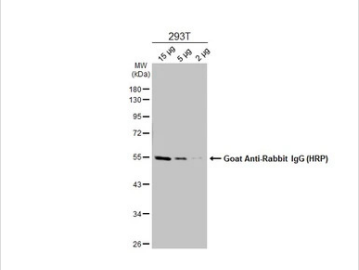
GTX213110-01 WB Image

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

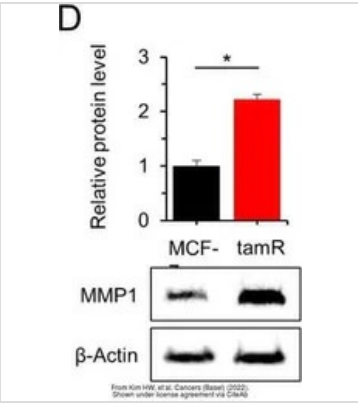
Various whole cell extracts were separated by 10% SDS-PAGE, and the membrane was blotted with alpha Tubulin antibody (GTX112141) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

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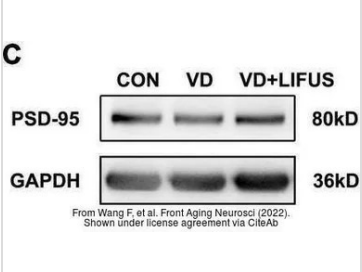
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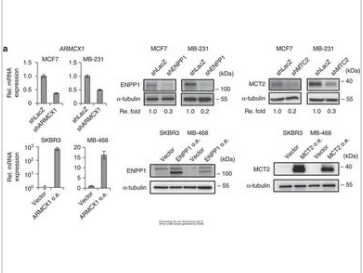
GTX213110-01 WB Image

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



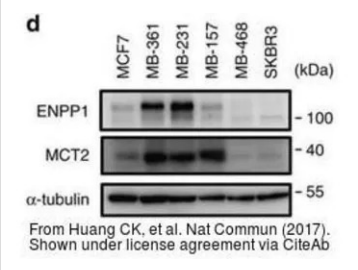
GTX213110-01 WB Image

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



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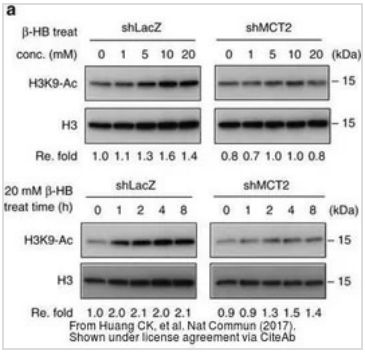
The data was published in the 2017 in Nat Commun. PMID: 28281525

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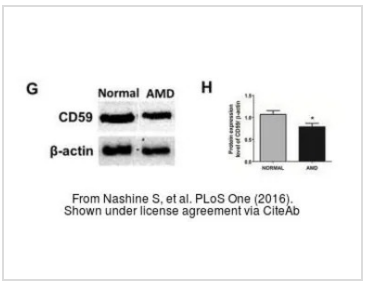
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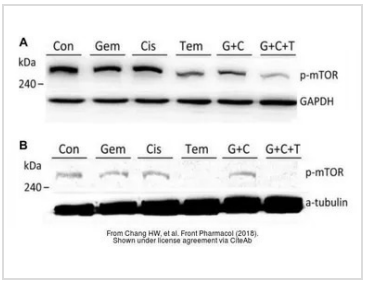
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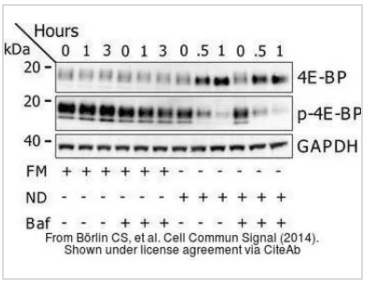
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The data was published in the 2016 in PLoS One. PMID: 27486856



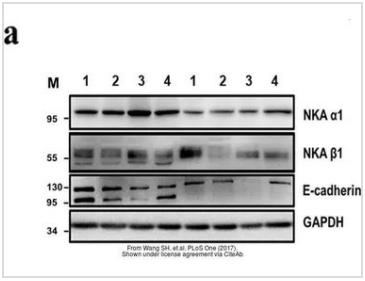
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The data was published in the journal Front Pharmacol in 2018.PMID: 30087612



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The data was published in the journal Cell Commun Signal in 2014.PMID: 25214434



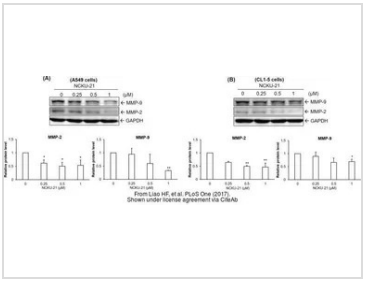
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The data was published in the journal PLoS One in 2017.PMID: 28832634

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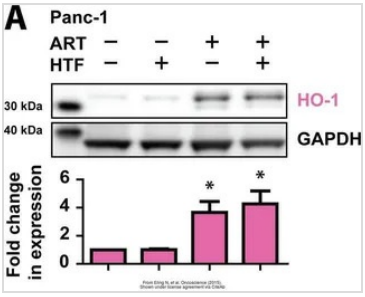
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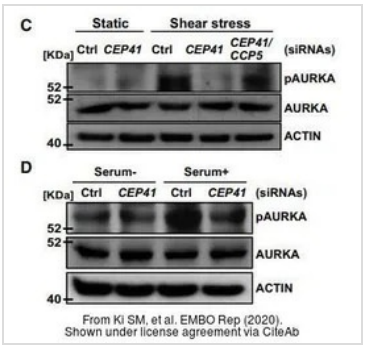
GTX213110-01 WB Image

The data was published in the journal PLoS One in 2017. PMID: 28945763



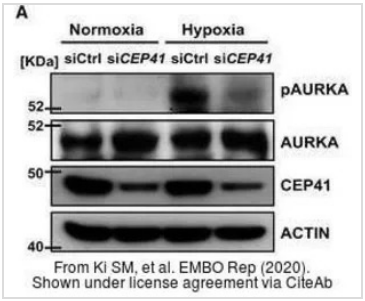
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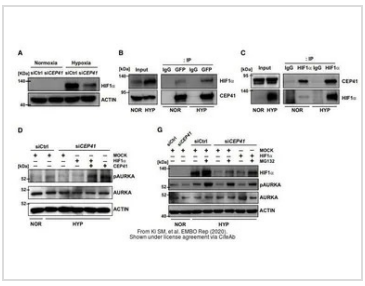
GTX213110-01 WB Image

The data was published in the journal EMBO Rep in 2020. PMID: 31885126



GTX213110-01 WB Image

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The data was published in the journal EMBO Rep in 2020. PMID: 31885126

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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 4ºC. For long-term storage, aliquot and store at -20ºC 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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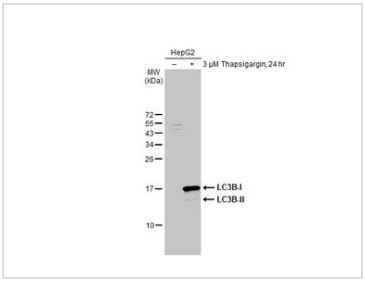
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Note

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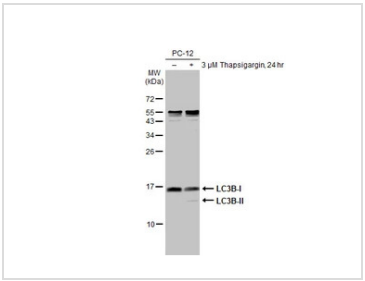
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DATA IMAGES



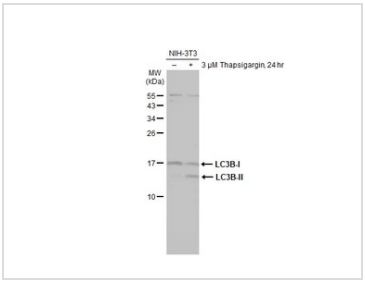
GTX639686 WB Image

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.



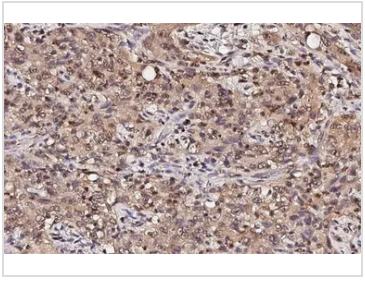
GTX639686 WB Image

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.



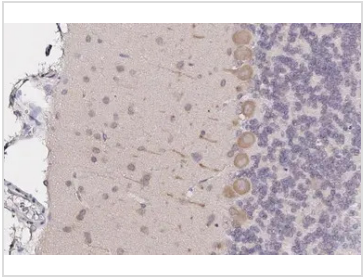
GTX639686 IHC-P Image

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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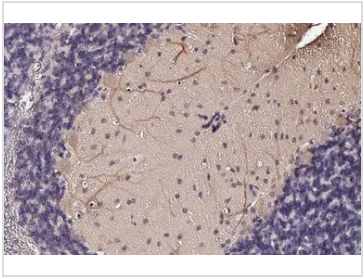
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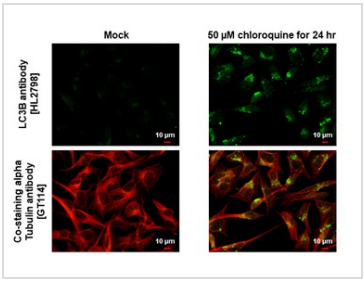
GTX639686 IHC-P Image

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



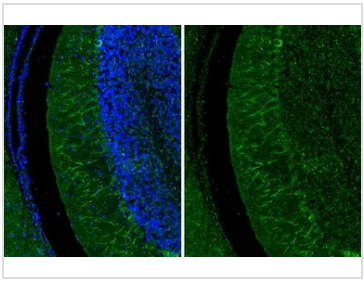
GTX639686 IHC-P Image

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



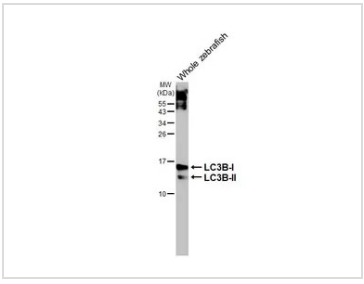
GTX639686 ICC/IF Image

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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