

GTX300103

## Antibody panel for autophagy

## Product Content

Cat No	Product Name	Reactivity	Applications	Package
GTX100685	SQSTM1 / P62 antibody [N3C1], Internal	Human, Mouse, Rat, Zebrafish, 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.



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## SQSTM1 / P62 antibody [N3C1], Internal

Cat. No. GTX100685

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

References ( 112 )

★★★★☆ 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	1:50-1:200
IP	1:100-1:500
PLA	Assay dependent

Not tested in other applications.

**Calculated MW** 48 kDa. ( [Note](#) )

## Properties

<b>Form</b>	Liquid
<b>Buffer</b>	PBS, 1% BSA, 20% Glycerol
<b>Preservative</b>	0.025% ProClin 300
<b>Storage</b>	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.
<b>Concentration</b>	0.39 mg/ml (Please refer to the vial label for the specific concentration.)
<b>Immunogen</b>	Carrier-protein conjugated synthetic peptide encompassing a sequence within the center region of human SQSTM1 / P62. The exact sequence is proprietary.



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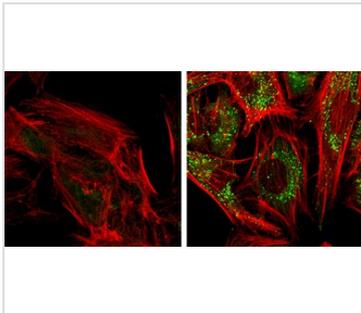
**Purification** Purified by antigen-affinity chromatography.

**Conjugation** Unconjugated

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DATA IMAGES



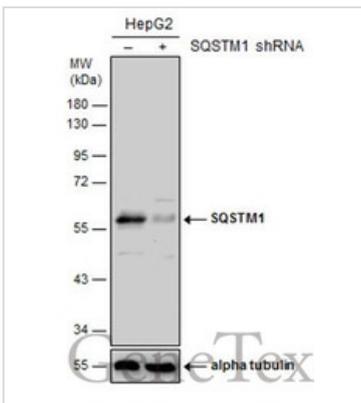
**GTX100685 ICC/IF Image**

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.

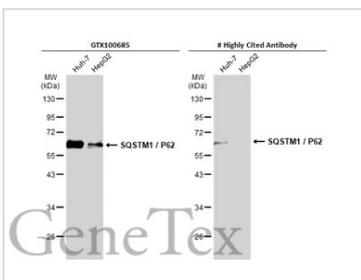
Green: SQSTM1 protein stained by SQSTM1 antibody [N3C1], Internal (GTX100685) diluted at 1:1000.

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.



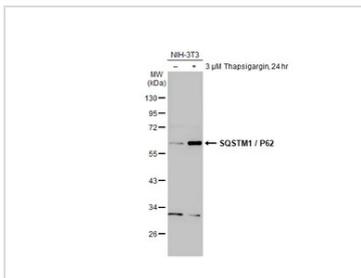
**GTX100685 WB Image**

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.

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

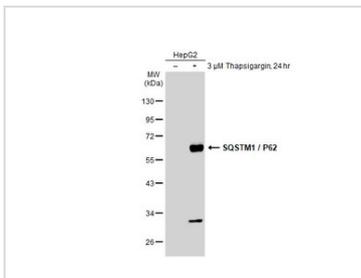


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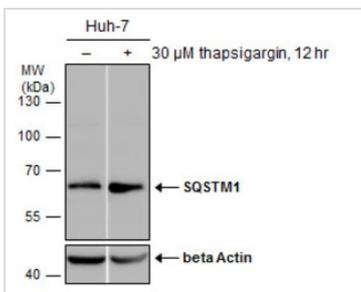
**GTX100685 WB Image**

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.



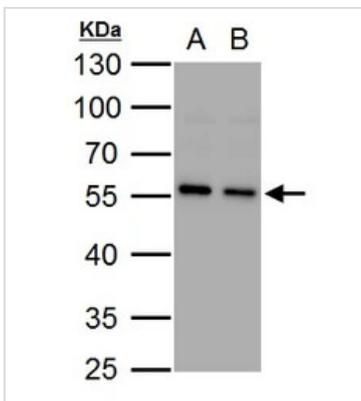
**GTX100685 WB Image**

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.

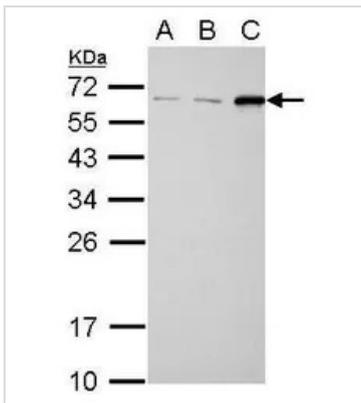


**GTX100685 WB Image**

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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**GTx100685 WB Image**

SQSTM1 antibody [N3C1], Internal detects SQSTM1 protein by western blot analysis.

A. 30 µg NIH-3T3 whole cell lysate/extract

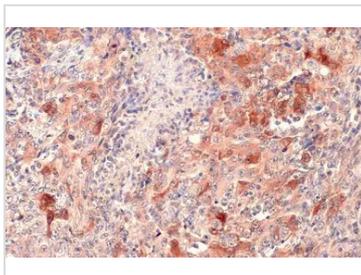
B. 30 µg JC whole cell lysate/extract

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.



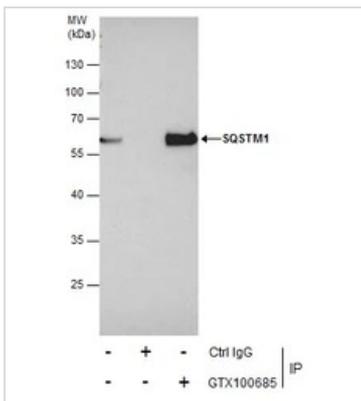
**GTx100685 IHC-P Image**

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

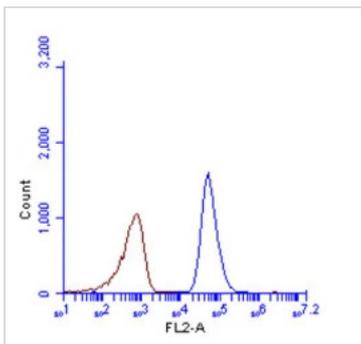


**GTx100685 IP Image**

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.

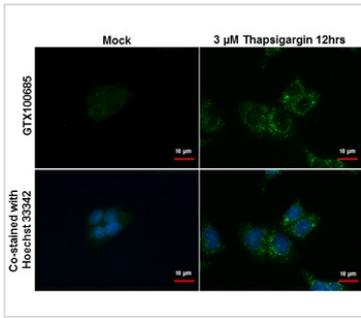
Brown: Unlabelled sample was also used as a control.

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.

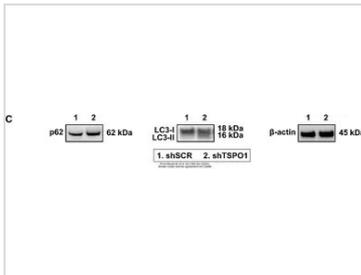


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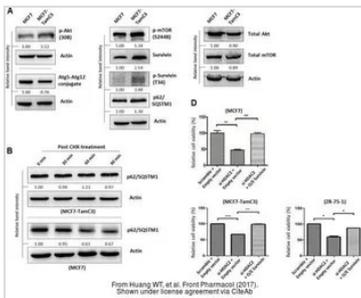
**GTX100685 ICC/IF Image**

SQSTM1 antibody [N3C1], Internal detects SQSTM1 protein at autophagosome by immunofluorescent analysis.  
 Samples: HepG2 cells treated with 3μM thapsigargin 12 hrs (right) 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.



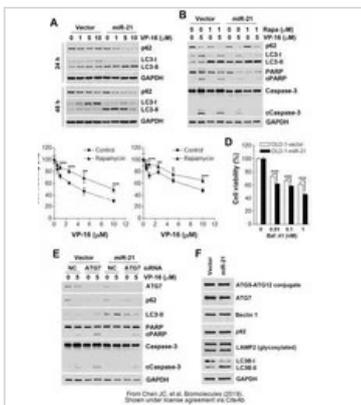
**GTX100685 WB Image**

The data was published in the 2020 in Int J Mol Sci. [PMID: 33260618](https://pubmed.ncbi.nlm.nih.gov/33260618/)



**GTX100685 WB Image**

The data was published in the journal Front Pharmacol in 2017. [PMID: 29326587](https://pubmed.ncbi.nlm.nih.gov/29326587/)

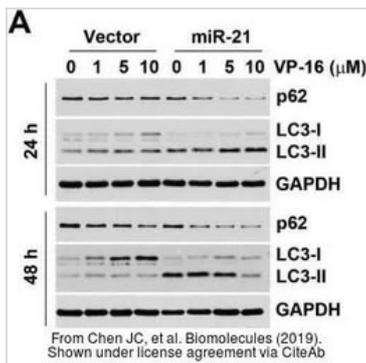


**GTX100685 WB Image**

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

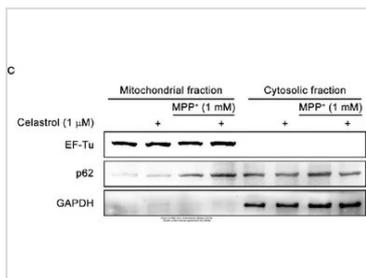


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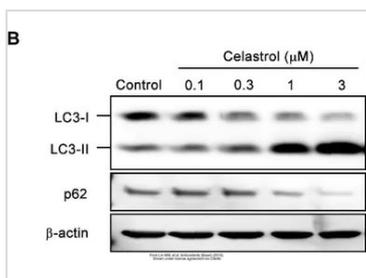
**GTXT100685 WB Image**

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



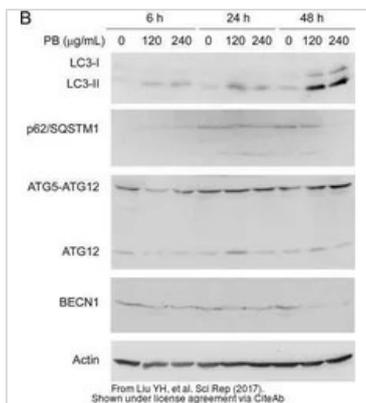
**GTXT100685 WB Image**

The data was published in the journal Antioxidants (Basel) in 2019. [PMID: 31906147](https://pubmed.ncbi.nlm.nih.gov/31906147/)



**GTXT100685 WB Image**

The data was published in the journal Antioxidants (Basel) in 2019. [PMID: 31906147](https://pubmed.ncbi.nlm.nih.gov/31906147/)

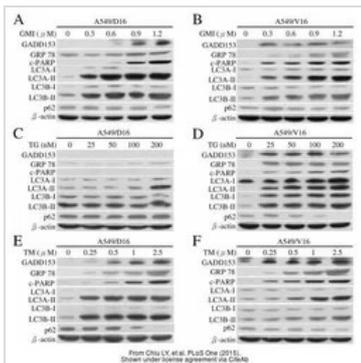


**GTXT100685 WB Image**

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

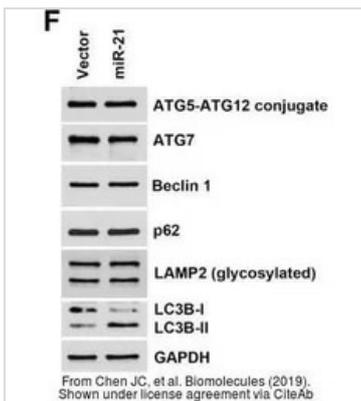


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**GTx100685 WB Image**

The data was published in the journal PLoS One in 2015. [PMID: 25946033](https://pubmed.ncbi.nlm.nih.gov/25946033/)



**GTx100685 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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## Goat Anti-Rabbit IgG antibody (HRP)

**Cat. No. GTX213110-01**

<b>Host</b>	Goat
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Applications</b>	WB, IHC-P, ELISA
<b>Reactivity</b>	Rabbit

References ( 631 )

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

<b>Form</b>	Liquid
<b>Buffer</b>	0.05M Tris, 0.15M NaCl
<b>Preservative</b>	0.025% ProClin 300
<b>Storage</b>	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.
<b>Concentration</b>	0.2 mg/ml (Please refer to the vial label for the specific concentration.)
<b>Immunogen</b>	Highly purified whole rabbit IgG
<b>Purification</b>	Purified by antigen-affinity chromatography.
<b>Conjugation</b>	Horseradish peroxidase(HRP)

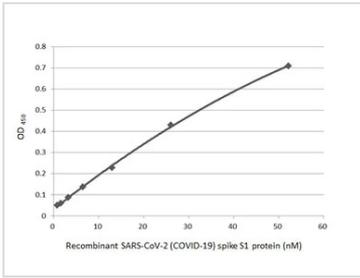
**Note**

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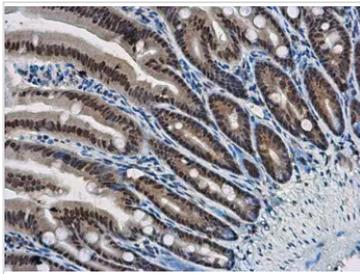
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DATA IMAGES



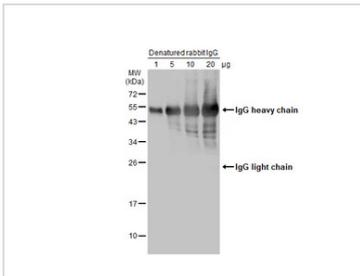
**GTX213110-01 ELISA Image**

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.



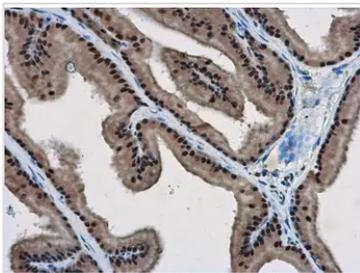
**GTX213110-01 IHC-P Image**

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



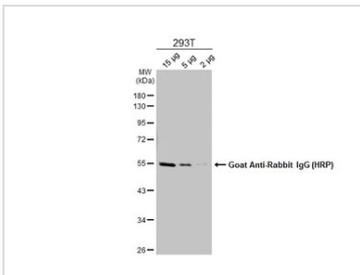
**GTX213110-01 WB Image**

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

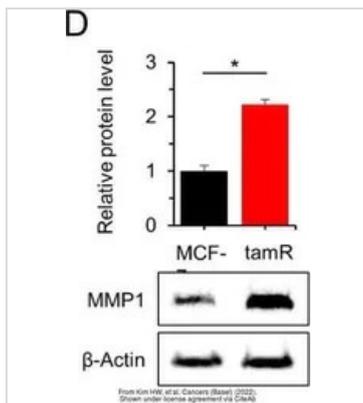


**GTX213110-01 WB Image**

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.

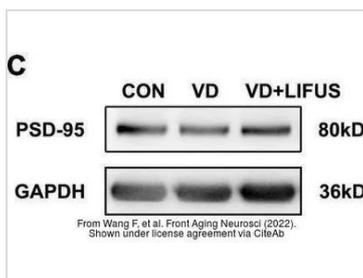


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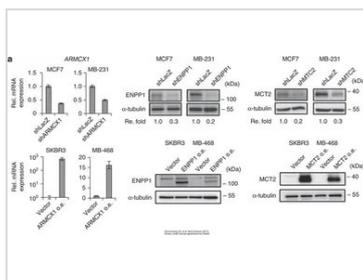
**GTx213110-01 WB Image**

The data was published in the 2022 in Cancers (Basel). [PMID: 35267540](https://pubmed.ncbi.nlm.nih.gov/35267540/)



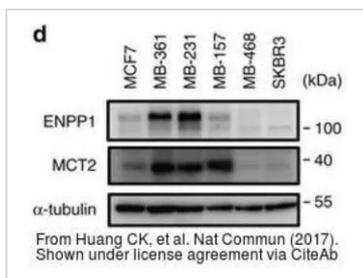
**GTx213110-01 WB Image**

The data was published in the 2022 in Front Aging Neurosci. [PMID: 35264943](https://pubmed.ncbi.nlm.nih.gov/35264943/)



**GTx213110-01 WB Image**

The data was published in the 2017 in Nat Commun. [PMID: 28281525](https://pubmed.ncbi.nlm.nih.gov/28281525/)

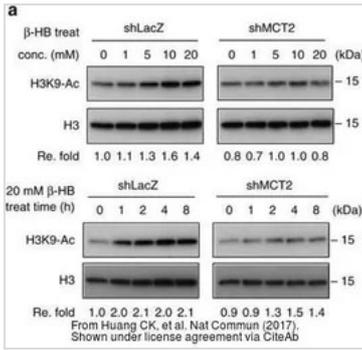


**GTx213110-01 WB Image**

The data was published in the 2017 in Nat Commun. [PMID: 28281525](https://pubmed.ncbi.nlm.nih.gov/28281525/)

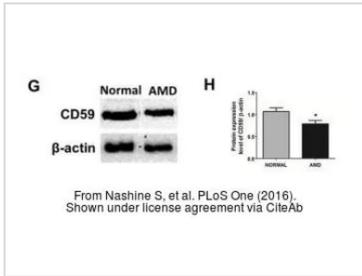


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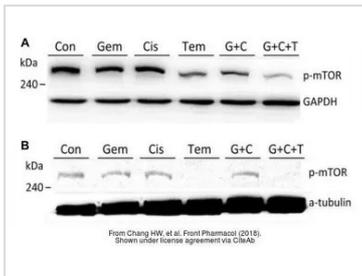
**GTx213110-01 WB Image**

The data was published in the 2017 in Nat Commun. [PMID: 28281525](https://pubmed.ncbi.nlm.nih.gov/28281525/)



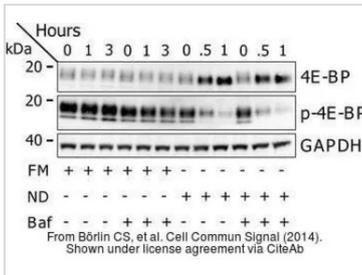
**GTx213110-01 WB Image**

The data was published in the 2016 in PLoS One. [PMID: 27486856](https://pubmed.ncbi.nlm.nih.gov/27486856/)



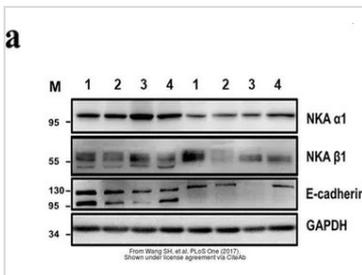
**GTx213110-01 WB Image**

The data was published in the journal Front Pharmacol in 2018. [PMID: 30087612](https://pubmed.ncbi.nlm.nih.gov/30087612/)



**GTx213110-01 WB Image**

The data was published in the journal Cell Commun Signal in 2014. [PMID: 25214434](https://pubmed.ncbi.nlm.nih.gov/25214434/)

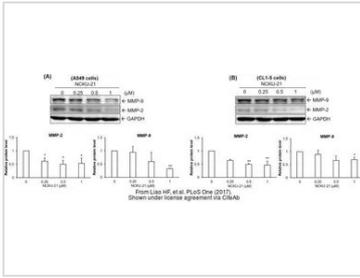


**GTx213110-01 WB Image**

The data was published in the journal PLoS One in 2017. [PMID: 28832634](https://pubmed.ncbi.nlm.nih.gov/28832634/)

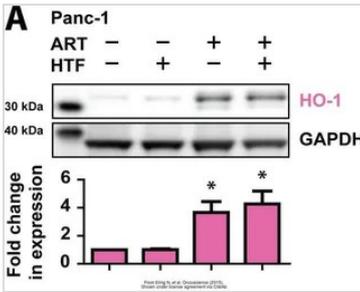


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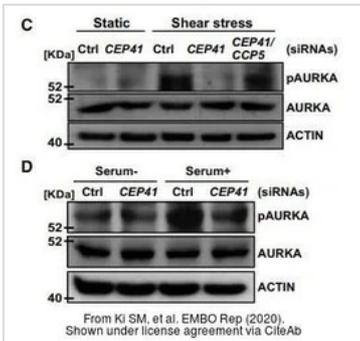
**GTX213110-01 WB Image**

The data was published in the journal PLoS One in 2017. [PMID: 28945763](https://pubmed.ncbi.nlm.nih.gov/28945763/)



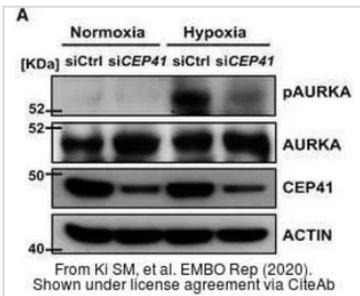
**GTX213110-01 WB Image**

The data was published in the journal Oncoscience in 2015. [PMID: 26097885](https://pubmed.ncbi.nlm.nih.gov/26097885/)



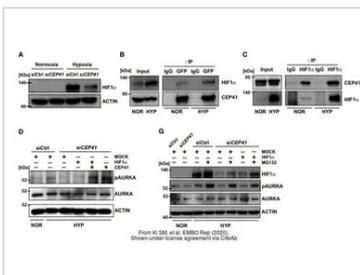
**GTX213110-01 WB Image**

The data was published in the journal EMBO Rep in 2020. [PMID: 31885126](https://pubmed.ncbi.nlm.nih.gov/31885126/)



**GTX213110-01 WB Image**

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## LC3B antibody [HL2798]

**Cat. No. GTX639686**

<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG
<b>Applications</b>	WB, ICC/IF, IHC-P
<b>Reactivity</b>	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.

## Properties

<b>Form</b>	Liquid
<b>Buffer</b>	PBS
<b>Preservative</b>	No preservatives
<b>Storage</b>	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.
<b>Concentration</b>	1 mg/ml (Please refer to the vial label for the specific concentration.)
<b>Immunogen</b>	Synthetic peptide of human LC3B.
<b>Purification</b>	Affinity purified by Protein A.
<b>Conjugation</b>	Unconjugated

**Note**

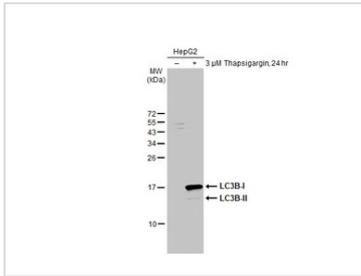
For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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.

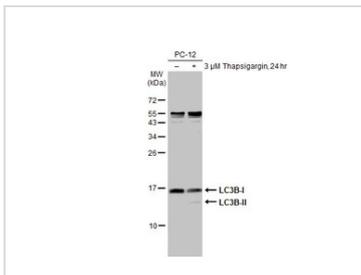


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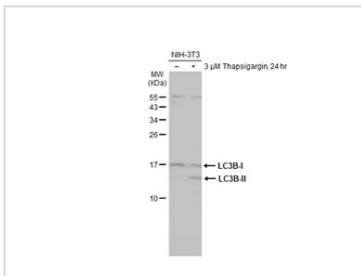
## DATA IMAGES

**GTX639686 WB Image**

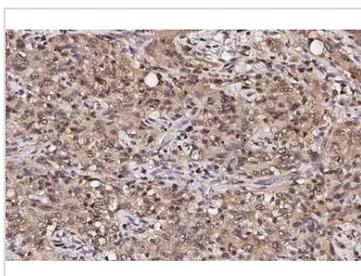
Untreated (-) and treated (+) HepG2 whole cell extracts (30 μg) were separated by 15% SDS-PAGE, and the membrane was blotted with LC3B antibody [HL2798] (GTX639686) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

**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.

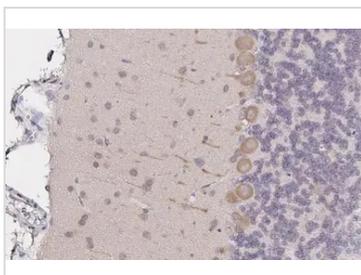
**GTX639686 IHC-P Image**

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

**GTX639686 IHC-P Image**

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

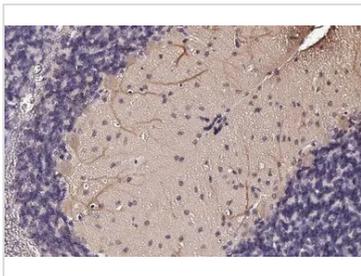
Sample: Paraffin-embedded rat cerebellum.

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

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

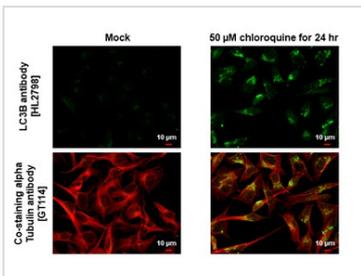


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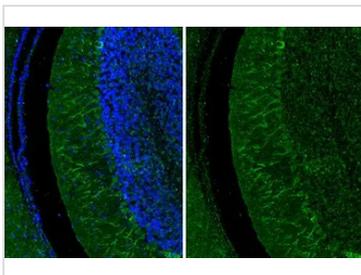
**GTX639686 IHC-P Image**

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



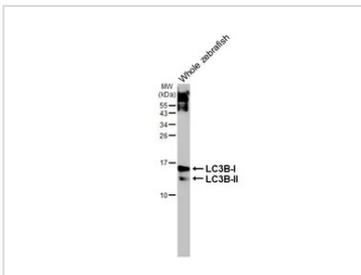
**GTX639686 ICC/IF Image**

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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