



GTX300090 Autophagy Marker Antibody Panel

Content

Cat No	Product Name	Applications	Package
GTX631396	Beclin 1 antibody [GT5811]	WB	25 µl
GTX127375	LC3B antibody	FACS, ICC/IF, IP, WB	25 µl
GTX100685	SQSTM1 antibody [N3C1], Internal	FACS, ICC/IF, IHC-P, IP, WB	25 µl
GTX124181	ATG12 antibody	IHC-P, IP, WB	25 µl
GTX213110-01	Rabbit IgG antibody (HRP)	Dot, ELISA, IHC-P, WB	25 µl

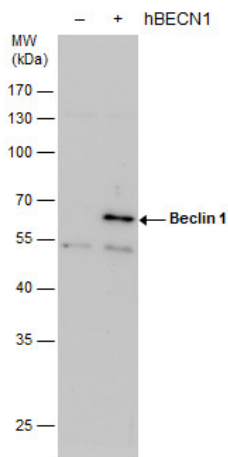
Note

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

DataSheet - 1

Catalog Number	GTX631396	Package:25 µl, 100 µl
Product Name	Beclin 1 antibody [GT5811]	
Full Name	beclin 1, autophagy related	
Synonyms	BECN1 Antibody , ATG6 Antibody , beclin1 Antibody , VPS30 Antibody , beclin 1, autophagy related Antibody	
Product Description	Mouse Monoclonal antibody [GT5811] to Beclin 1 (beclin 1, autophagy related)	
Background	Beclin-1 participates in the regulation of autophagy and has an important role in development, tumorigenesis, and neurodegeneration (Zhong et al., 2009 [PubMed 19270693]).[supplied by OMIM]	
Host	Mouse	
Clonality	Monoclonal	
Clone Name	GT5811	
Isotype	IgG2a	
Target	Beclin 1	
Immunogen	Recombinant protein encompassing a sequence within the center region of human Beclin 1. The exact sequence is proprietary.	
Antigen Species	Human	
Species Reactivity	Human	
Predicted Cross Reactivity species	Mouse, Rat, Zebrafish, Japanese medaka, Xenopus laevis, Pig, Chicken, Rhesus Monkey, Bovine	
Predict Reactivity Note	Mouse (100%), Rat (99%), Zebrafish (94%), Japanese medaka (98%), Xenopus laevis (96%), Pig (100%), Chicken (100%), Rhesus Monkey (100%), Bovine (100%)	
Applications	WB	
Application Note		Suggested dilution
	Western blot	1:500-1:3000*
Not tested in other applications.		
*Optimal dilutions/concentrations should be determined by the researcher.		

Positive Controls	human BECN1-transfected HeLa
Predicted Target Size	52 kDa
Cellular Localization	Cytoplasm , Golgi apparatus membrane; Peripheral membrane protein , Cytoplasm , Golgi apparatus membrane
Conjugation	Unconjugated
Form Supplied	Liquid
Purification	Affinity purified by Protein G.
Concentration	1.74 mg/ml (Please refer to the vial label for the specific concentration)
Storage Buffer	PBS
Storage Instruction	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Notes	For <i>In vitro</i> laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.
ResearchArea	Cancer > Apoptosis > Anti-apoptosis Cell Biology > Apoptosis > Anti-apoptosis Cell Biology > Autophagy



GTX631396 WB Image

Beclin 1 antibody detects Beclin 1 protein by western blot analysis. Non-transfected (-) and Beclin 1-transfected (+,) HeLa whole cell extracts (30 µg) were separated by 10 SDS-PAGE, and the membrane was blotted with Beclin 1 antibody (GTX631396) diluted by 1:1000.

DataSheet - 2

Catalog Number	GTX127375	Package: 25 µl, 100 µl	★★★★★ (8)	Reference (6)
Product Name	LC3B antibody			
Full Name	microtubule-associated protein 1 light chain 3 beta			
Synonyms	ATG8F antibody, LC3B antibody, MAP1A/1BLC3 antibody, MAP1LC3B antibody, autophagy-related ubiquitin-like modifier LC3 B antibody, MAP1A/MAP1B LC3 B antibody, MAP1A/MAP1B light chain 3 B antibody, MAP1 light chain 3-like protein 2 antibody, microtubule-associated proteins 1A/1B light chain 3B antibody, microtubule-associated protein 1 light chain 3 beta antibody			
Product Description	Rabbit Polyclonal antibody to LC3B (microtubule-associated protein 1 light chain 3 beta)			
Specificity	Cross-reactivity may occur with other LC3 isoforms			
Background	The product of this gene is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. Studies on the rat homolog implicate a role for this gene in autophagy, a process that involves the bulk degradation of cytoplasmic component. [provided by RefSeq]			
Host	Rabbit			
Clonality	Polyclonal			
Isotype	IgG			
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human LC3B. The exact sequence is proprietary.			

Antigen Species	Human
Species Reactivity	Human, Mouse, Pig, Rat
Predicted Cross Reactivity species	Zebrafish, Japanese medaka, Rhesus Monkey, Chimpanzee, Bovine
Predict Reactivity Note	Zebrafish (100%), Japanese medaka (100%), Rhesus Monkey (100%), Chimpanzee (100%), Bovine (100%)
Applications	FACS, ICC/IF, IP, WB

	Suggested dilution	Reference
Flow cytometry/FACS	1:50-1:200*	
ICC/IF	1:100-1:2000*	
Immunoprecipitation	1:100-1:500*	
Western blot	1:500-1:3000*	

Not tested in other applications.

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

Positive Controls
 NT2D1 , PC-3 , Rat brain , SK-N-SH , U87-MG , mouse brain , HeLa , HeLa (50 µM Chloroquine treat for 24 hr) , HeLa (50 µM Chloroquine treat for 48 hr) , HepG2 (3 µM Thapsigargin treatment for 12 hr) , HepG2 (3 µM Thapsigargin treatment for 16 hr) , HepG2 (3 µM Thapsigargin treatment for 24 hr) , Huh7 (HCV-infected) , Huh7 (un-infected) , *dendritic cell (starvation from 10%FBS) , *HaCaT , *IPEC-J2

Predicted Target Size
 15 kDa

Cellular Localization
 Cytoplasm , Endomembrane system; Lipid-anchor , Cytoplasmic vesicle , autophagosome membrane; Lipid-anchor

Conjugation
 Unconjugated

Form Supplied
 Liquid

Purification
 Purified by antigen-affinity chromatography.

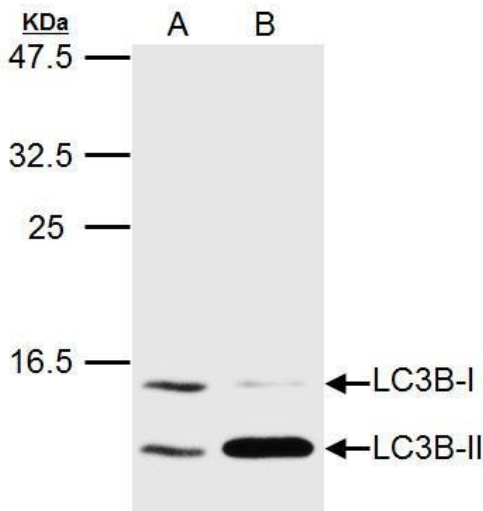
Concentration
 2.42 mg/ml (Please refer to the vial label for the specific concentration)

Storage Buffer
 1XPBS, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative.

Storage Instruction
 Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

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

ResearchArea [Cell Biology](#) > [Autophagy](#)



GTX127375 WB Image

LC3B antibody detects MAP1LC3B protein by Western blot analysis.

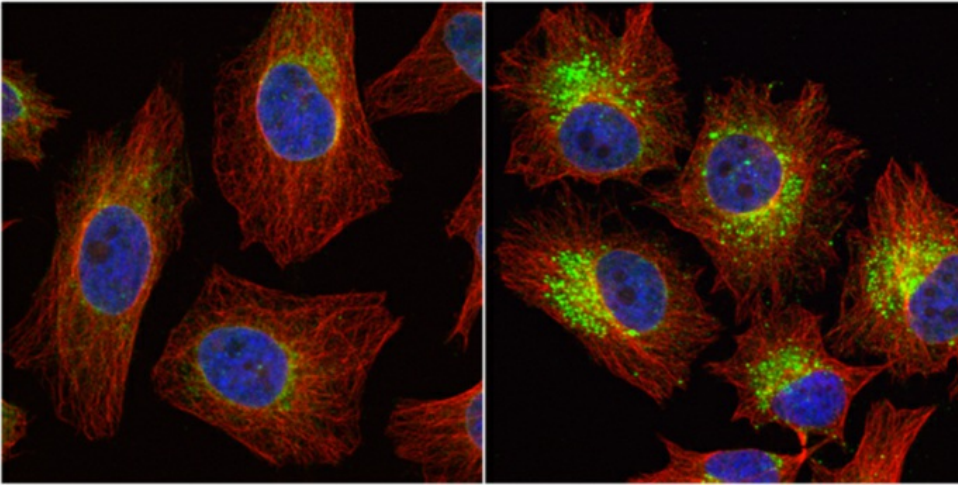
A. 20 µg Huh7 whole cell lysate/extract (untreated)

B. 20 µg Huh7 whole cell lysate/extract (3µM-Thapsigargin treatment for 12hr)

LC3B antibody (GTX127375) dilution: 1:1500

Mock

50 μ M Chloroquine



GTX127375 ICC/IF Image

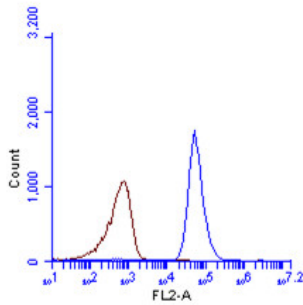
LC3B antibody detects LC3B protein at autophagosome by immunofluorescent analysis.

Samples: HeLa cells mock (left) and treated with 50 μ M Chloroquine for 24 hr (right) were fixed in 4% paraformaldehyde at RT for 15 min.

Green: LC3B protein stained by LC3B antibody (GTX127375) diluted at 1:2000.

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

Blue: Hoechst 33342 staining.



GTX127375 FACS Image

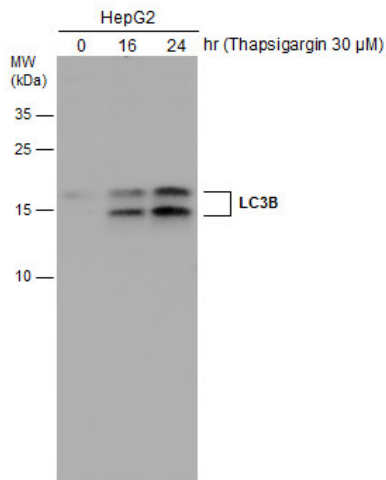
LC3B antibody (GTX127375) detects LC3B protein by flow cytometry analysis.

Sample: HeLa cell fixed in 4% paraformaldehyde at 4°C for 5 min.

Brown: Unlabelled sample was also used as a control.

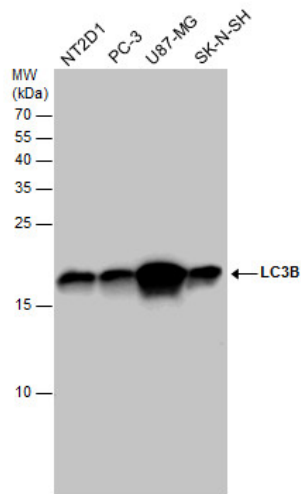
Blue: LC3B antibody (GTX127375) dilution: 1:100.

Acquisition of >20,000 events were collected using Argon ion laser (488nm) and 525/30 bandpass filter.



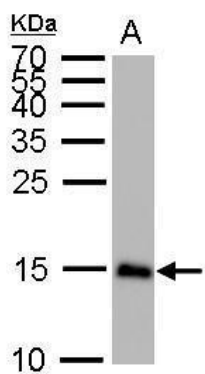
GTX127375 WB Image

HepG2 cells were untreated or treated with 3 μ M thapsigargin for 16 and 24 hrs. Whole cell extracts (30 μ g) were separated by 15% SDS-PAGE, and the membrane was blotted with LC3B antibody (GTX127375) diluted at 1:1000.



GTX127375 WB Image

LC3B antibody detects LC3B protein by western blot analysis. Various whole cell extracts (30 µg) were separated by 15% SDS-PAGE, and the membrane was blotted with LC3B antibody (GTX127375) diluted at a dilution of 1:1000.



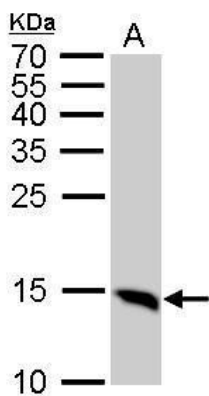
GTX127375 WB Image

LC3B antibody detects MAP1LC3B protein by Western blot analysis.

A. 50 µg mouse brain lysate/extract

15 % SDS-PAGE

LC3B antibody (GTX127375) dilution: 1:1000



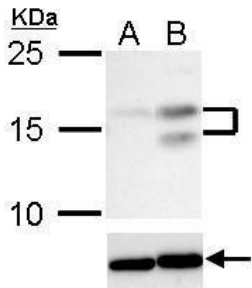
GTX127375 WB Image

LC3B antibody detects MAP1LC3B protein by Western blot analysis.

A. 50 µg Rat brain lysate/extract

15 % SDS-PAGE

LC3B antibody (GTX127375) dilution: 1:1000



GTX127375 WB Image

LC3B antibody detects LC3B protein in Thapsigargin-treated samples by Western blot analysis.

Upper panel: LC3B antibody (GTX127375)

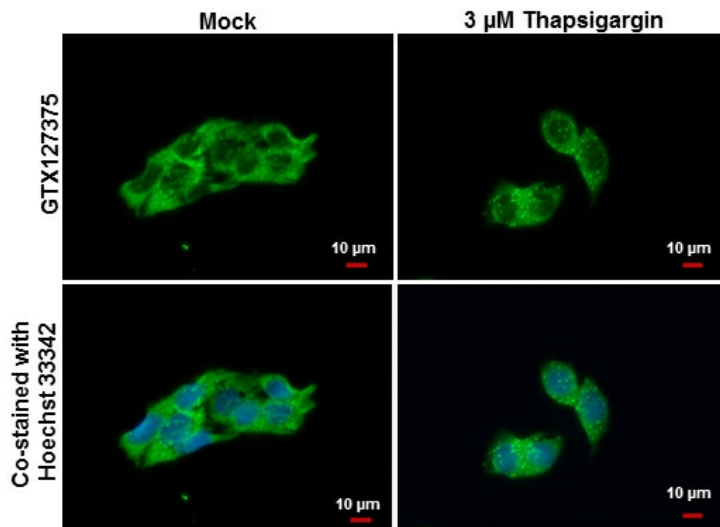
Lower panel: Beta-actin antibody (GTX110564) A. 30 μg HepG2 whole cell lysate/extract (untreated)

B. 30 μg HepG2 whole cell lysate/extract (3 μM Thapsigargin treatment for 12 hr)

15 % SDS-PAGE

LC3B antibody (GTX127375) dilution: 1:1000

Beta-actin antibody (GTX110564) dilution: 1:20000



GTX127375 ICC/IF Image

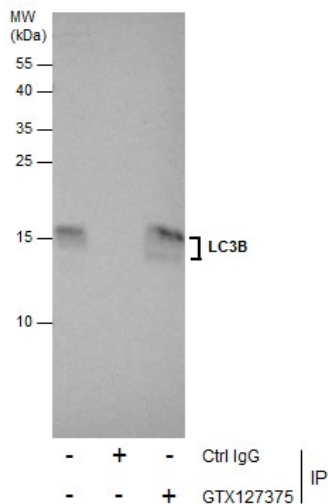
LC3B antibody detects LC3B protein at autophagosome by immunofluorescent analysis.

Samples: Hep G2 cells mock (left) and treated with 3 μM Thapsigargin for 12 hrs (right) were fixed in ice-cold MeOH for 10 min and permeabilized with ice-cold acetone for 1 min.

Green: LC3B protein stained by LC3B antibody (GTX127375) diluted at 1:500.

Blue: Hoechst 33342 staining.

Scale bar = 10 μm.

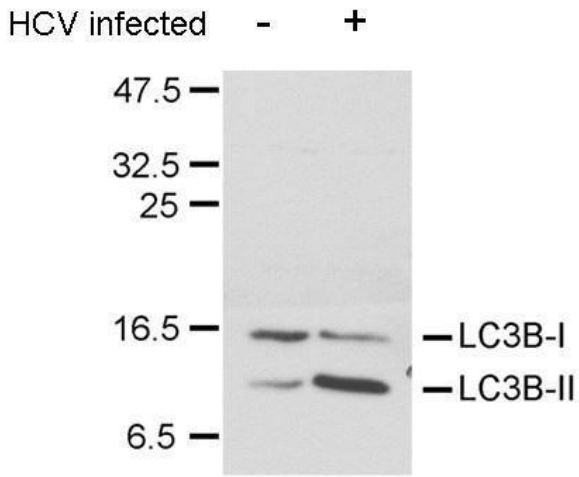


GTX127375 IP Image

Immunoprecipitation of LC3B protein from U87-MG whole cell extracts using 5 μg of LC3B antibody (GTX127375).

Western blot analysis was performed using LC3B antibody (GTX127375).

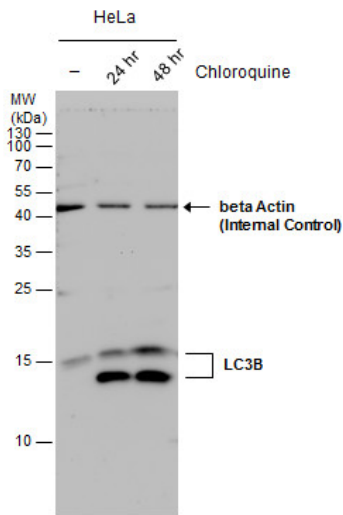
EasyBlot anti-Rabbit IgG (GTX221666-01) was used as a secondary reagent.



GTX127375 WB Image

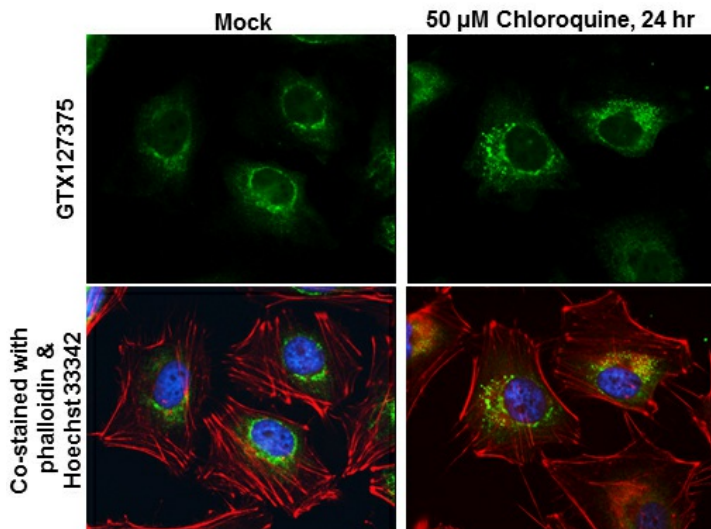
LC3B antibody detects LC3B protein in HCV-infected samples by Western blot analysis.

- A. 20 µg Huh7 whole cell lysate/extract (un-infected)
 - B. 20 µg Huh7 whole cell lysate/extract (HCV-infected)
- LC3B antibody (GTX127375) dilution: 1:1500



GTX127375 WB Image

LC3B antibody detects LC3B protein by western blot analysis. Un-treated (-) and treated (+, 50µM Chloroquine treatment for 48 hr) HeLa whole cell extracts (30 µg) were separated by 15% SDS-PAGE, and the membrane was blotted with LC3B antibody (GTX127375) at a dilution of 1:500. The beta Actin was used as internal control (GTX1056 1:50000) shown at the bottom panel.



GTX127375 ICC/IF Image

LC3B antibody detects LC3B 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: LC3B protein stained by LC3B antibody (GTX127375) diluted at 1:100.

Blue: Hoechst 33342 staining.

Red: Phalloidin, a cytoskeleton marker, diluted at 1:200.

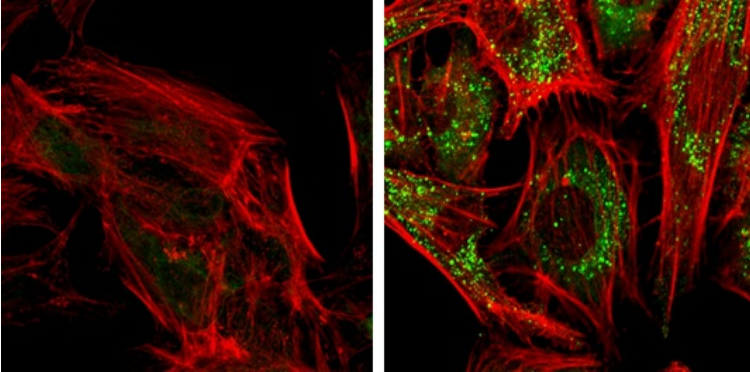
Application Reference

1. Wu PS (2015) *PLoS One* e0130599
2. Huang YJ (2015) *Nanoscale* 20352-64
3. Hung SY (2015) *Neuropharmacology* 243-51
4. Liu BH (2013) *Biores Open Access* 28-39
5. Liu TP (2015) *Anticancer Drugs* 139-47
6. Lee KH (2014) *Sci Rep* 6394

DataSheet - 3

Catalog Number	GTX100685	Package:25 µl,100 µl	★★★★☆ (2)	Reference (8)
Product Name	SQSTM1 antibody [N3C1], Internal			
Full Name	sequestosome 1			
Synonyms	A170 antibody, OSIL antibody, PDB3 antibody, ZIP3 antibody, p60 antibody, p62 antibody, p62B antibody, SQSTM1 antibody, EBI3-associated protein p60 antibody, ubiquitin-binding protein p62 antibody, EBI3-associated protein of 60 kDa antibody, oxidative stress induced like antibody, phosphotyrosine-independent ligand for the Lck SH2 domain of 62 kDa antibody, EBIAP antibody, phosphotyrosine independent ligand for the Lck SH2 domain p62 antibody, sequestosome-1 antibody, sequestosome 1 antibody			
Product Description	Rabbit Polyclonal antibody to SQSTM1 (sequestosome 1)			
Background	This gene encodes a multifunctional protein that binds ubiquitin and regulates activation of the nuclear factor kappa-B (NF-κB) signaling pathway. The protein functions as a scaffolding/adaptor protein in concert with TNF receptor-associated factor 6 to mediate activation of NF-κB in response to upstream signals. Alternatively spliced transcript variants encoding either the same or different isoforms have been identified for this gene. Mutations in this gene result in sporadic and familial Paget disease of bone. [provided by RefSeq]			
Host	Rabbit			
Clonality	Polyclonal			
Isotype	IgG			
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the center region of human SQSTM1. The exact sequence is proprietary.			
Antigen Species	Human			
Species Reactivity	Human, Mouse, Rat, Zebrafish, Bovine, Honeybee			
Predicted Cross Reactivity species	Rhesus Monkey			
Predict Reactivity Note	Rhesus Monkey (93%)			
Applications	FACS, ICC/IF, IHC-P, IP, WB			
Application Note		Suggested dilution	Reference	
	Flow cytometry/FACS	1:50-1:200*		
	ICC/IF	1:100-1:1000*		
	IHC (Formalin-fixed paraffin-embedded sections)	1:100-1:1000*		
	Immunoprecipitation	1:100-1:500*		
	Western blot	1:500-1:3000*		
	Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.			
Positive Controls	A549 , NIH-3T3 , JC , BCL-1 , PC-12 , Rat2 , Huh7 (untreated) , Huh7 (3uM Thapsigargin treatment for 12hr) , *HeLa			
Predicted Target Size	48 kDa			
Cellular Localization	Cytoplasm , Late endosome , Nucleus			

Conjugation	Unconjugated
Form Supplied	Liquid
Purification	Purified by antigen-affinity chromatography.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration)
Storage Buffer	1XPBS, 20% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Storage Instruction	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Notes	For <i>In vitro</i> laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.
ResearchArea	Cancer > Apoptosis > Anti-apoptosis Cancer > Apoptosis > Induction > Extracellular signals Cell Biology > Apoptosis > Anti-apoptosis



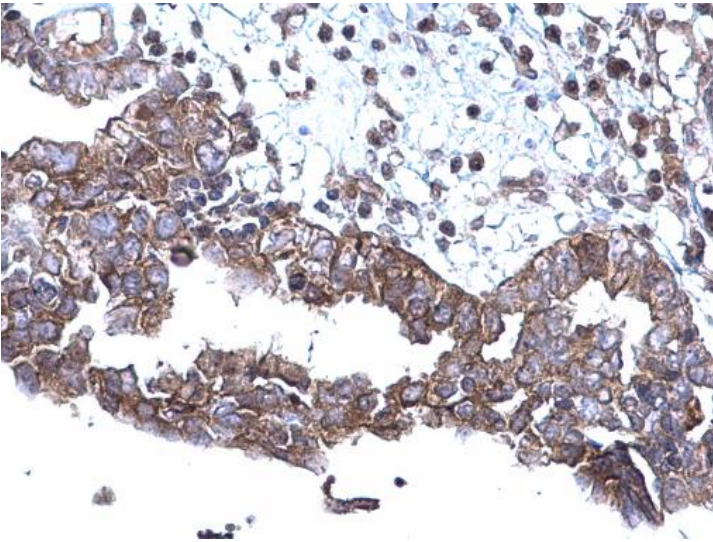
GTX100685 ICC/IF Image

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.

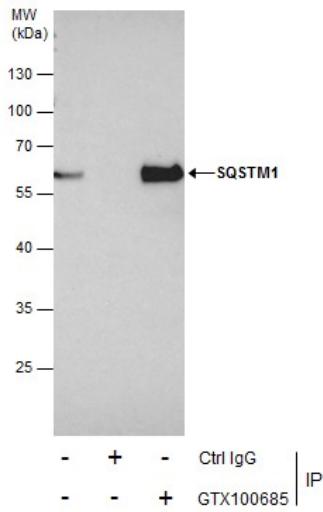


GTX100685 IHC-P Image

SQSTM1 antibody [N3C1], Internal detects SQSTM1 protein at cytoplasm on human ovarian carcinoma by immunohistochemical analysis.

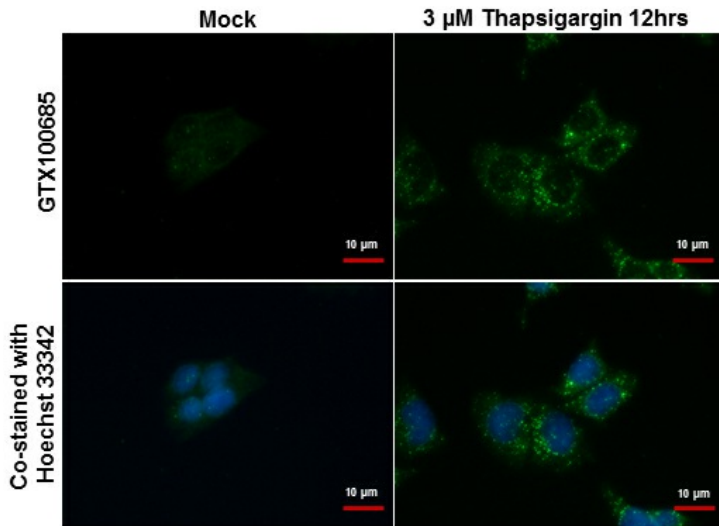
Sample: Paraffin-embedded human ovarian carcinoma.

SQSTM1 antibody [N3C1], Internal (GTX100685) diluted at 1:500.



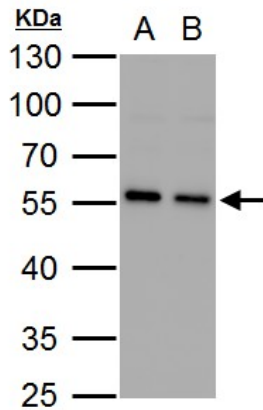
GTX100685 IP Image

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.



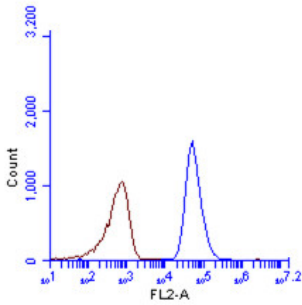
GTX100685 ICC/IF Image

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.



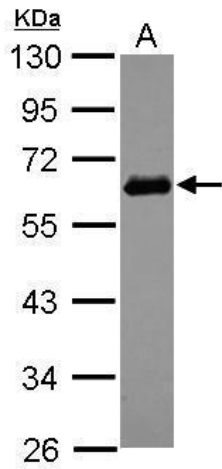
GTX100685 WB Image

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



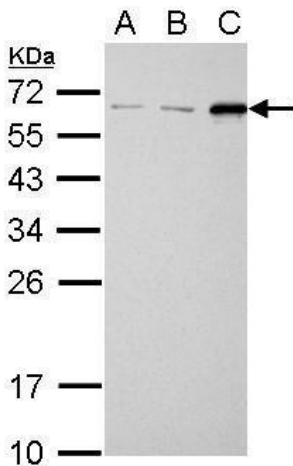
GTX100685 FACS Image

SQSTM1 antibody [N3C1], Internal (GTX100685) detects SQSTM1 protein by flow cytometry analysis.
 Sample: HeLa cell fixed in 4% paraformaldehyde at 4°C 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.



GTX100685 WB Image

Sample (30 ug of whole cell lysate)
 A: A549
 10% SDS PAGE
 GTX100685 diluted at 1:1000



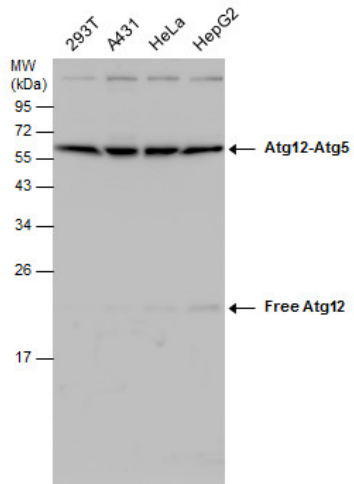
GTX100685 WB Image

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

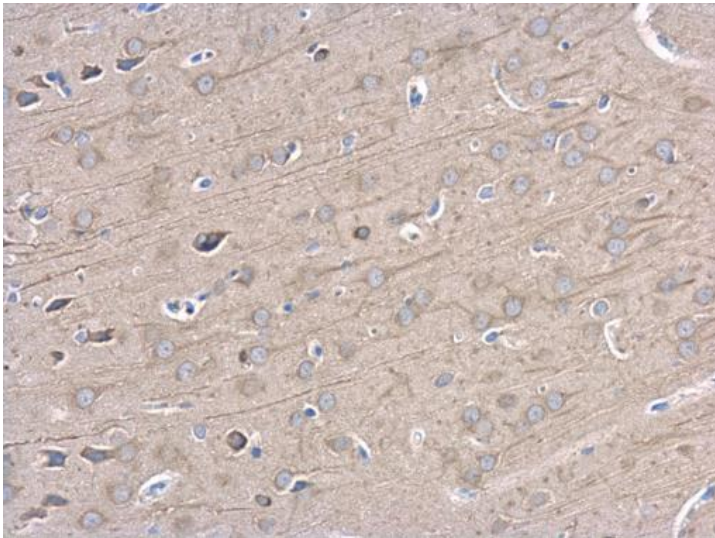
1. Tseng AH (2013) *Free Radic Biol Med* 222-34
2. Chiu LY (2015) *PLoS One* e0125774
3. Liu TP (2015) *Anticancer Drugs* 139-47
4. Li KC (2014) *Mol Cancer* 172
5. Li JR (2014) *Anticancer Research* 2973-2983
6. Li JR (2013) *Toxicol Lett* 267-76
7. Hsu CY (2014) *Exp Gerontol* 128-36
8. Tung YT (2014) *Mol Neurobiol* 10-27

DataSheet - 4

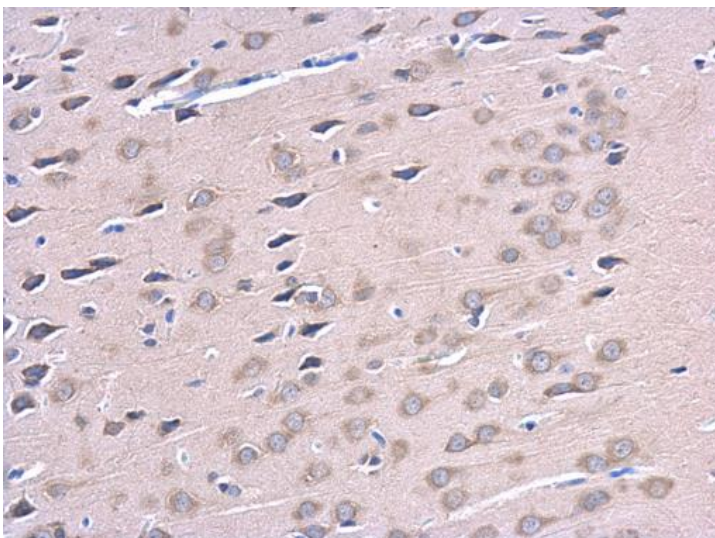
Catalog Number	GTX124181	Package:25 µl, 100 µl
Product Name	ATG12 antibody	
Full Name	ATG12 autophagy related 12 homolog (S. cerevisiae)	
Synonyms	APG12 antibody, APG12L antibody, FBR93 antibody, HAPG12 antibody, ATG12 antibody, ubiquitin-like protein ATG12 antibody, "Apg12 (autophagy, yeast) homolog antibody", autophagy-related protein 12 antibody, ATG12 autophagy related 12 homolog (S. cerevisiae) antibody	
Product Description	Rabbit Polyclonal antibody to ATG12 (ATG12 autophagy related 12 homolog (S. cerevisiae))	
Background	Autophagy is a process of bulk protein degradation in which cytoplasmic components, including organelles, are enclosed in double-membrane structures called autophagosomes and delivered to lysosomes or vacuoles for degradation. ATG12 is the human homolog of a yeast protein involved in autophagy (Mizushima et al., 1998 [PubMed 9852036]).[supplied by OMIM]	
Host	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Immunogen	Recombinant protein encompassing a sequence within the center region of human ATG12. The exact sequence is proprietary.	
Antigen Species	Human	
Species Reactivity	Human, Mouse, Rat	
Predicted Cross Reactivity species	Pig, Chimpanzee	
Predict Reactivity Note	Pig (81%), Chimpanzee (82%)	
Applications	IHC-P, IP, WB	
Application Note		Suggested dilution
		Reference
	IHC (Formalin-fixed paraffin-embedded sections)	1:100-1:1000*
	Immunoprecipitation	1:100-1:500*
	Western blot	1:500-1:3000*
	Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.	
Positive Controls	293T , A431 , NIH-3T3 , Rat brain	
Predicted Target Size	15 kDa	
Cellular Localization	Cytoplasm	
Conjugation	Unconjugated	
Form Supplied	Liquid	
Purification	Purified by antigen-affinity chromatography.	
Concentration	1.26 mg/ml (Please refer to the vial label for the specific concentration)	
Storage Buffer	1XPBS, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative.	
Storage Instruction	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.	
Notes	For <i>In vitro</i> laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.	

**GTX124181 WB Image**

ATG12 antibody detects ATG12 protein by western blot analysis. Various whole cell extracts (30 μ g) were separated by 12% SDS-PAGE, and the membrane was blotted with ATG12 antibody (GTX124181) diluted at 1:1000.

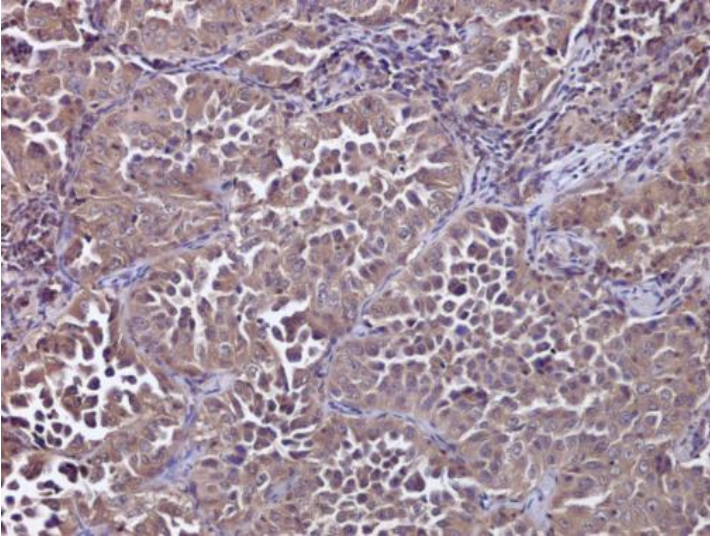
**GTX124181 IHC-P Image**

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.

**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.

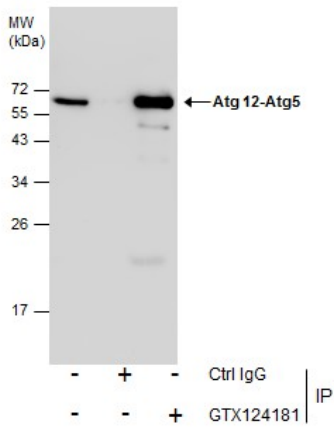


GTX124181 IHC-P Image

ATG12 antibody detects ATG12 protein at cytoplasm in human lung cancer by immunohistochemical analysis.

Sample: Paraffin-embedded human lung cancer.

ATG12 antibody (GTX124181) diluted at 1:500.

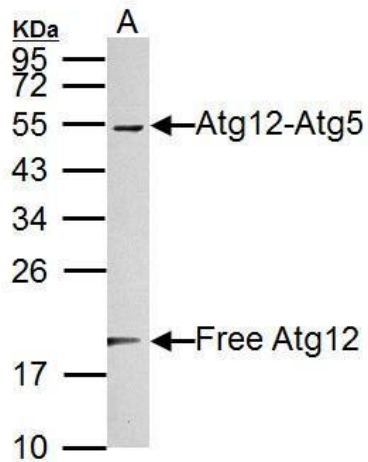


GTX124181 IP Image

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).

EasyBlot anti-Rabbit IgG (GTX221666-01) was used as a secondary reagent.



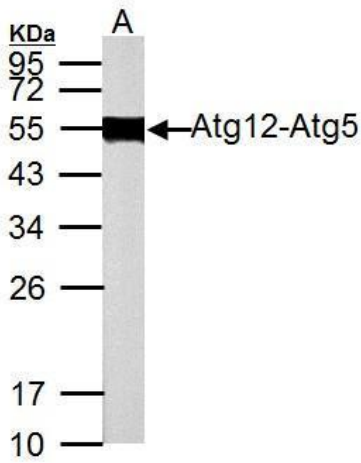
GTX124181 WB Image

Sample (30 µg of whole cell lysate)

A: NIH-3T3

12% SDS PAGE

GTX124181 diluted at 1:1000



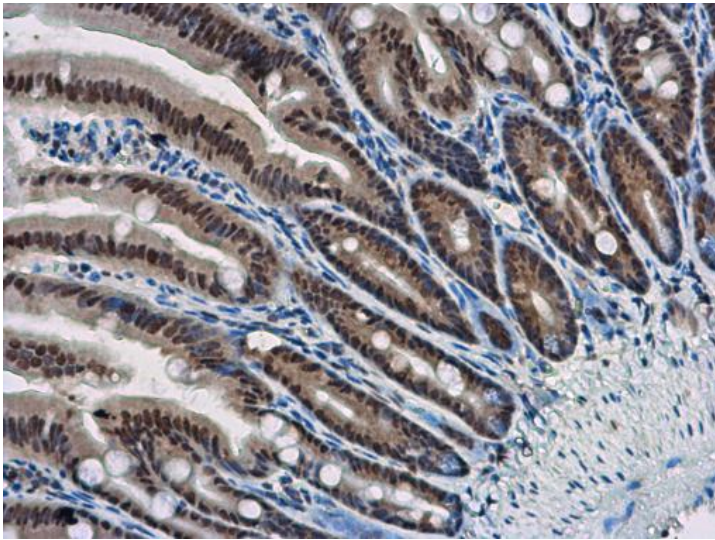
GTX124181 WB Image

Sample (50 ug of whole cell lysate)
 A: Rat brain
 12% SDS PAGE
 GTX124181 diluted at 1:1000

DataSheet - 5

Catalog Number	GTX213110-01	Package: 1 ml	Reference (38)
Product Name	Rabbit IgG antibody (HRP)		
Synonyms	antiRabbit IgG antibody, anti-Rabbit IgG antibody, Goat antiRabbit IgG HRP, Rabbit IgG secondary antibody, Goat anti-Rabbit IgG HRP, anti Rabbit IgG antibody, Goat anti Rabbit IgG HRP		
Product Description	HRP-conjugated Goat anti-Rabbit IgG polyclonal antibody		
Background	Immunoglobulin G (IgG), is one of the most abundant proteins in serum with normal levels between 8-17 mg/ml in adult blood. IgG is important for our defence against microorganisms and the molecules are produced by B lymphocytes as a part of our adaptive immune response. The IgG molecule has two separate functions; to bind to the pathogen that elicited the response and to recruit other cells and molecules to destroy the antigen. The variability of the IgG pool is generated by somatic recombination and the number of specificities in an individual at a given time point is estimated to be 1011 variants.		
Host	Goat		
Clonality	Polyclonal		
Isotype	IgG		
Target	Rabbit IgG		
Immunogen	Highly purified whole rabbit IgG		
Antigen Species	Rabbit		
Cross Reactivity Note	Rabbit		
Applications	Dot, ELISA, IHC-P, WB		
Application Note		Suggested dilution	Reference
	Dot blot	Assay-dependent dilution	
	ELISA	Assay-dependent dilution	
	IHC (Formalin-fixed paraffin-embedded sections)	1:100-1:1000*	
	Western blot	Assay-dependent dilution	
	Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.		
Conjugation	HRP		
Form Supplied	Liquid		
Purification	Affinity purified with antigen		

Concentration	0.15 mg/ml (Please refer to the vial label for the specific concentration)
Storage Buffer	0.05M Tris, 0.15M NaCl (pH7.4), 1%BSA. 0.025% ProClin 300 was added as a preservative.
Storage Instruction	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Notes	For <i>In vitro</i> laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



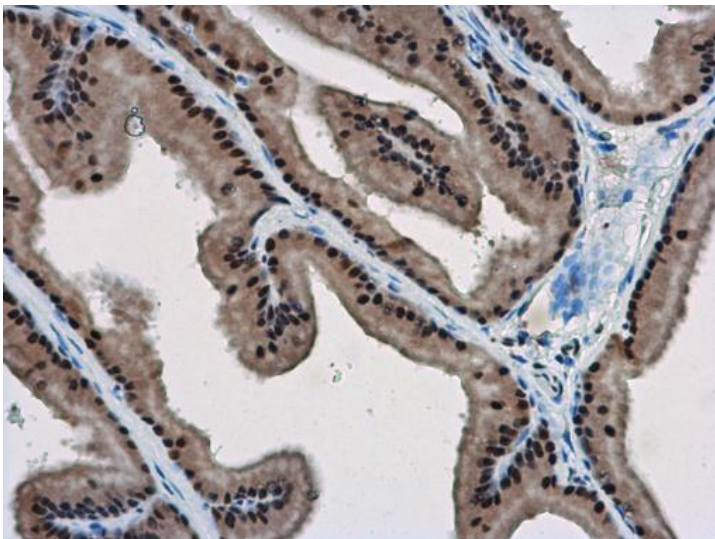
GTX213110-01 IHC-P Image

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)



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).

Application Reference

1. Lin CW (2016) *Acta Biomater*
2. Choi JY (2015) *Biochem Biophys Res Commun* 883-8
3. Pillay S (2016) *Nature*
4. Chuang YC (2014) *J Virol* 13759-68
5. Chen HY (2015) *Vet Parasitol* 281-91
6. Chun-Chang Yeh (2015) *BMC Anesthesiology* 92
7. Chen WH (2015) *Cancer Lett.* 65-74
8. Rumwald Leo G (2014) *SPIE Proceedings* 894405-1
9. Yang DF (2014) *J Formos Med Assoc.* 88-93
10. Huang JH (2015) *PLoS Pathog* e1004985
11. Lee WY (2015) *Oncotarget*
12. Eling N (2015) *Oncoscience* 517-32
13. Huang CY (2015) *Int J Mol Sci* 14171-80
14. Nils Eling (2015) *Oncoscience* 517-32

15. Kuan-Lin Kuo (2015) *Cancer Letters* 127–136
17. *Int J Mol Med.* (2014)
19. Chen HY (2014) *Vet Parasitol*
21. Grossini E (2014) *J Endocrinol* 137-49
23. Jagtap AD (2014) *Eur J Med Chem* 268-288
25. Tseng LC (2014) *PLoS One* e93394
27. Hsu CY (2014) *PLoS Pathog* e1003974
29. Kilgore JA (2013) *J Biol Chem* 19673-84
31. Chiang HC (2012) *Respiration* 319-26
33. Liu K (2012) *Gene* 225-30
35. Chang KH (2013) *Evid Based Complement Alternat Med* 471659
37. Lin YL (2012) *Brain Behav Immun* 459-68
16. Heng-Hsiung Wu (2015) *Journal of Experimental Medicine* [Epub ahead of print]
18. Hsu TH (2014) *Cell Death Differ*
20. Zheng Y (2014) *PLoS One* e98552
22. Wang HC (2014) *Eur J Med Chem* 312-34
24. Wei MF (2014) *Autophagy* 1179-92
26. Chen CM (2014) *Free Radic Biol Med*
28. Lee JG (2014) *Toxicol In Vitro* 562-570
30. Fu PK (2012) *Evid Based Complement Alternat Med* 837513
32. Xie H (2012) *PLoS One* e33087
34. Huang KH (2012) *PLoS One* e33615
36. Chen YH (2012) *PLoS One* e48335
38. Cheng AN (2013) *Cancer Lett* 218-25