

Rabbit anti-Human, Mouse ATG4B Polyclonal Antibody | anti-ATG4B antibody

ATG4B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321022	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ATG4B; Polyclonal Antibody; ATG4B Antibody; APG4 autophagy 4 homolog B; APG4B; ATG4 autophagy related 4 homolog B (S. cerevisiae); ATG4B_HUMAN; AUT like 1 cysteine endopeptidase; AUT-like 1 cysteine endopeptidase; AUTL1; Autophagin 1; Autophagin-1; Autophagy related cysteine endopeptidase 1; Autophagy related protein 4 homolog B; Autophagy-related cysteine endopeptidase 1; Autophagy-related protein 4 homolog B; Cysteine protease ATG4B; hAPG4B; MGC1353; anti-ATG4B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	ATG4B antibody detects endogenous levels of ATG4B
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	393
Applicable Applications for anti-ATG4B antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ATG4B
Subcellular Location	Cytoplasm.
Tissue Specificity	Mainly expressed in the skeletal muscle, followed by brain, heart, liver and pancreas.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit, Dog
Similarity	Pig (82%), Bovine (100%), Sheep (91%), Rabbit (91%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321022 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of ATG4B expression in Mouse brain lysate



WB (Western Blot)

Western blot analysis on Jurkat cell lysate using ATG4B Antibody, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA321022 at 1/100 staining human testis tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-ATG4B antibody

Description: Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases. Two transcript variants that encode different isoforms were identified through sequence analysis.

Function: Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3, GABARAPL1, GABARAPL2 and GABARAP, to reveal a C-terminal glycine. Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy. Has also an activity of delipidating enzyme for the PE-conjugated forms.

Similarity: Belongs to the peptidase C54 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47132611
NCBI GeneID	23192
NCBI Accession #	NP_037457.3
NCBI GenBank Nucleotide #	NM_013325.4
UniProt Accession #	Q9Y4P1; Q53NU4; Q6ZUV8; Q8WYM9; Q96K07; Q96K96; Q96SZ1; Q9Y2F2; B7WNK2
Molecular Weight	Observed: 44 kDa Predicted: 45 kDa
NCBI Official Full Name	cysteine protease ATG4B isoform a
NCBI Official Synonym Full Names	autophagy related 4B cysteine peptidase
NCBI Official Symbol	ATG4B
NCBI Official Synonym Symbols	APG4B; AUTL1
NCBI Protein Information	cysteine protease ATG4B
UniProt Protein Name	Cysteine protease ATG4B

UniProt Gene Name	ATG4B
UniProt Synonym Gene Names	APG4B; AUTL1; KIAA0943; hAPG4B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/atg4b-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321022>