Rabbit ATG4B Polyclonal Antibody | anti-ATG4B antibody

ATG4B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40572	**Rabbit**	**Human, Mouse, Rat**	**Immunofluorescence, Immunohistochemistry, Western Blot, ELISA**

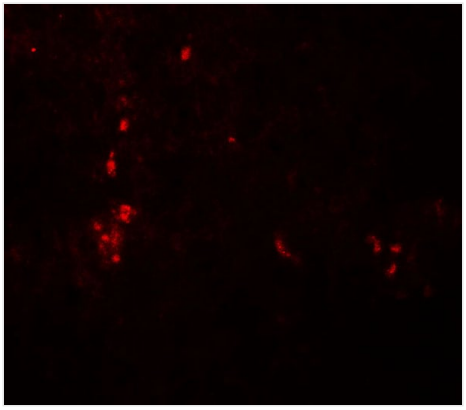
PRODUCT SYNONYMS

ATG4B; Polyclonal Antibody; ATG4B Antibody; Autophagy related 4B cysteine peptidase; APG4B; APG4-B; AUTL1; autophagy related 4B; cysteine peptidase; anti-ATG4B antibody

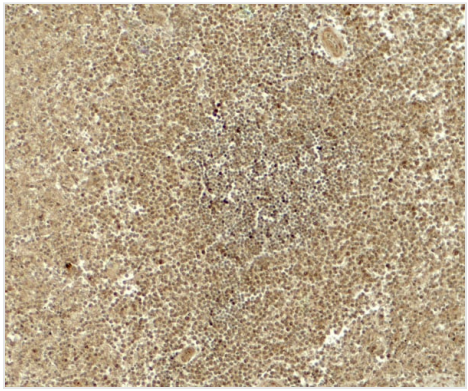
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATG4B antibody is human, mouse and rat reactive. At least two isoforms of ATG4B are known to exist; this antibody will detect only the larger isoform. ATG4B is predicted to not cross-react with other ATG4 proteins.
Purity/Purification	ATG4B antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	393
Applicable Applications for anti-ATG4B antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	ATG4B antibody was raised against a 17 amino acid peptide near the carboxy terminus of human ATG4B.
Buffer	ATG4B antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	ATG4B antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.

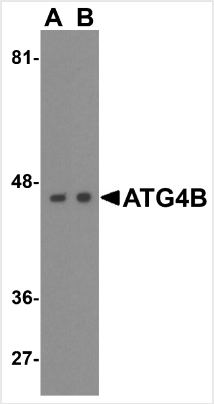
IMAGES



IF (Immunofluorescence)
Immunofluorescence of ATG4B in human spleen tissue with ATG4B antibody at 20 μg/ml.



IHC (Immunohiostchemistry)
Immunohistochemistry of ATG4B in human spleen tissue with ATG4B antibody at 5 μg/ml.



WB (Western Blot)
Western blot analysis of ATG4B in (A) Ramos and (B) Jurkat cell lysate with ATG4B antibody at 1 μg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-ATG4B antibody	Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components (1,2). ATG4B, also known as AUTL1, is one of four mammalian orthologs of the yeast ATG4 protein; all four are cysteine proteases (3). ATG4 is required for ATG8 conjugation to phosphatidylethanolamine on autophagosomal membranes. In mammals, each ATG4 homolog shows a selective preference for the ATG8 homologs (4). ATG4B has been found to be a novel protective protein in inflammatory colitis (5).

NCBI AND UNIPROT INFORMATION

NCBI GI #	47132611
NCBI GeneID	23192
NCBI Accession #	NP_037457
NCBI GenBank Nucleotide #	NM_013325.4
UniProt Accession #	Q9Y4P1; Q53NU4; Q6ZUV8; Q8WYM9; Q96K07; Q96K96; Q96SZ1; Q9Y2F2; B7WNK2
Molecular Weight	Predicted: 43 kDa Observed: 44 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; hAPG4B; autophagin-1; APG4 autophagy 4 homolog B; AUT-like 1 cysteine endopeptidase; ATG4 autophagy related 4 homolog B; autophagy-related protein 4 homolog B; autophagy-related cysteine endopeptidase 1
UniProt Protein Name	Cysteine protease ATG4B
UniProt Gene Name	**ATG4B**
UniProt Synonym Gene Names	APG4B; AUTL1; KIAA0943; hAPG4B
UniProt Entry Name	ATG4B_HUMAN

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.

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Online datasheet: https://www.aaabiotech.com/polyclonal/atg4b-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/40572