Rabbit ATG4B Polyclonal Antibody | anti-ATG4B antibody

ATG4B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285990	**Rabbit**	**Human (Predicted Reactivity: Bovine, Chicken, Zebrafish, Mouse)**	**Immunohistochemistry, ELISA, Western Blot**

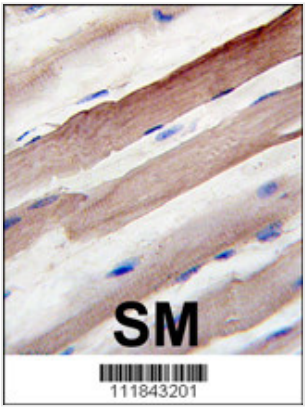
PRODUCT SYNONYMS

ATG4B; Polyclonal Antibody; ATG4B Antibody; Cysteine protease ATG4B; 3422-; AUT-like 1 cysteine endopeptidase; Autophagin-1; Autophagy-related cysteine endopeptidase 1; Autophagy-related protein 4 homolog B; hAPG4B; APG4B; AUTL1; KIAA0943; anti-ATG4B antibody

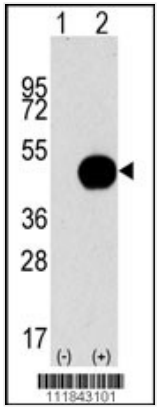
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Chicken, Zebrafish, Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ATG4B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 258-284 amino acids from human ATG4B.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.3 (varies by lot)
Sequence Positions	258-284
Sequence Length	393
Applicable Applications for anti-ATG4B antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human skeletal muscle reacted with Autophagy APG4B Antibody (E273) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of APG4B (arrow) using purified Pab. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the APG4B gene (Lane 2) (Origene Technologies).

ADDITIONAL INFORMATION

Related Product Information for anti-ATG4B antibody	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). APG4, a cysteine protease required for autophagy, cleaves the C-terminal part of MAP1LC3 to form the activated molecule LC3-I. LC3-I is subsequently conjugated with phosphatidylethanolamine at the C-terminal glycine to form LC3-II, a marker for autophagy via its capacity to bind to autophagosomes.
Product Categories/Family for anti-ATG4B antibody	Cancer; Cardiovascular; Cell Biology; Metabolism; Neuroscience; Autophagy
References	Tanida, I., et al., J. Biol. Chem. 279(35):36268-36276 (2004). Marino, G., et al., J. Biol. Chem. 278(6):3671-3678 (2003). Kabeya, Y., et al., J. Cell. Sci. 117 (Pt 13), 2805-2812 (2004) (): ().

NCBI AND UNIPROT INFORMATION

NCBI GI #	47132611
NCBI GeneID	23192
NCBI Accession #	NP_037457.3; NP_847896.1
NCBI GenBank Nucleotide #	NM_013325.4
UniProt Accession #	Q9Y4P1; Q53NU4; Q6ZUV8; Q8WYM9; Q96K07; Q96K96; Q96SZ1; Q9Y2F2; B7WNK2
Molecular Weight	44294
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
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://stage.aaabiotech.com/polyclonal/atg4b-antibody-immunohistochemistry-western-blot-elisa/285990