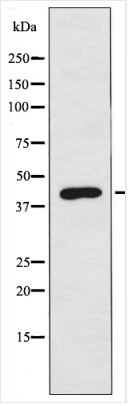
ATG4B Antibody

PRODUCT OVERVIEW

Product Name	ATG4B, Antibody
Full Product Name	ATG4B Antibody
Product Gene Name	anti-ATG4B antibody
Product Synonym Names	Cysteine protease ATG4B; EC 3.4.22.-; Autophagy-related protein 4 homolog B; hAPG4B; Autophagin-1; Autophagy-related cysteine endopeptidase 1; AUT-like 1 cysteine endopeptidase; ATG4B; APG4B; AUTL1; KIAA0943
Species Reactivity	Human, Mouse
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	ATG4B Antibody detects endogenous levels of total ATG4B
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	44 KD
OMIM	611338
3D Structure	ModBase 3D Structure for Q9Y4P1
Immunogen	A synthesized peptide
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATG4B antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-ATG4B antibody	WB: 1:500-1:1000 IHC: 1:50-1:200
Related Product Information for anti-ATG4B antibody	MBS8514218 is an antibody targeting ATG4B. Also known as ATG4B Antibody. Reactive in Human, Mouse.
Other Notes	Small volumes of anti-ATG4B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-ATG4B antibody
Western blot analysis of extracts from Jurkat cells, using ATG4B antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATG4B. It may not necessarily be applicable to this product.

NCBI GI #	47132611
NCBI GeneID	23192
NCBI Accession #	NP_037457.3
UniProt Primary Accession #	Q9Y4P1
UniProt Secondary Accession #	Q53NU4; Q6ZUV8; Q8WYM9; Q96K07; Q96K96; Q96SZ1; Q9Y2F2; B7WNK2
UniProt Related Accession #	Q9Y4P1
GenBank Nucleotide #	NM_013325.4
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
UniProt Protein Name	Cysteine protease ATG4B
UniProt Synonym Protein Names	AUT-like 1 cysteine endopeptidase; Autophagin-1; Autophagy-related cysteine endopeptidase 1; Autophagy-related protein 4 homolog B; hAPG4B
Protein Family	Cysteine protease
UniProt Gene Name	ATG4B
UniProt Synonym Gene Names	APG4B; AUTL1; KIAA0943; hAPG4B
NCBI Protein Information	cysteine protease ATG4B
NCBI Summary for ATG4B	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. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]
UniProt Comments for ATG4B	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.
Research Articles on ATG4B	**1.** ATG4B contains a C-terminal LIR motif important for binding and efficient cleavage of mammalian orthologs of yeast Atg8
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