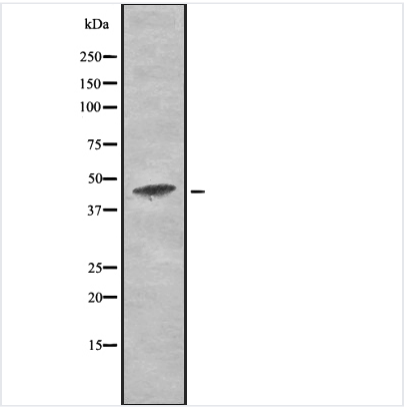
ATG4A Antibody

PRODUCT OVERVIEW

Product Name	ATG4A, Antibody
Full Product Name	ATG4A Antibody
Product Gene Name	anti-ATG4A antibody
Molecular Weight	42,453 Da
OMIM	300663
3D Structure	ModBase 3D Structure for Q8WYN0
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-ATG4A antibody	MBS8517336 is an antibody targeting ATG4A. Also known as ATG4A Antibody.
Other Notes	Small volumes of anti-ATG4A 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-ATG4A antibody
Western blot analysis ATG4A using MCF7 whole cell lysates

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATG4A. It may not necessarily be applicable to this product.

NCBI GI #	1007892879
NCBI GeneID	115201
NCBI Accession #	NP_001308216.1
UniProt Primary Accession #	Q8WYN0
UniProt Secondary Accession #	O95534; Q5JYY9; Q5JYZ0; Q86VE5; Q96KQ0; Q96KQ1; A6NCH2; B2RAZ7; D3DUY0
UniProt Related Accession #	Q8WYN0
GenBank Nucleotide #	NM_001321287.1
NCBI Official Full Name	cysteine protease ATG4A isoform c

NCBI Official Synonym Full Names	autophagy related 4A cysteine peptidase
NCBI Official Symbol	ATG4A
NCBI Official Synonym Symbols	APG4A; AUTL2
UniProt Protein Name	Cysteine protease ATG4A
UniProt Synonym Protein Names	AUT-like 2 cysteine endopeptidase; Autophagin-2; Autophagy-related cysteine endopeptidase 2; Autophagy-related protein 4 homolog A; hAPG4A
Protein Family	Cysteine protease
UniProt Gene Name	ATG4A
UniProt Synonym Gene Names	APG4A; AUTL2; hAPG4A
NCBI Protein Information	cysteine protease ATG4A
NCBI Summary for ATG4A	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. [provided by RefSeq, Mar 2016]
UniProt Comments for ATG4A	Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins 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. Preferred substrate is GABARAPL2 followed by MAP1LC3A and GABARAP. Has also an activity of delipidating enzyme for the PE-conjugated forms.
Research Articles on ATG4A	**1.** An intron SNP rs807185 in ATG4A might be a protective factor for lung cancer.
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