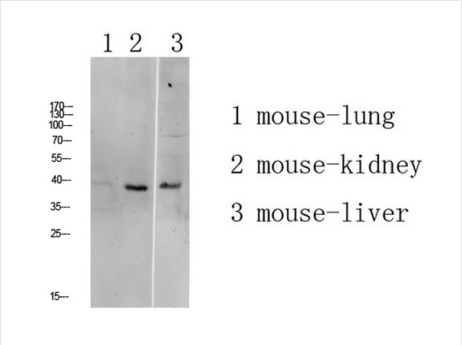
ATG4A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATG4A, Polyclonal Antibody
Full Product Name	ATG4A Polyclonal Antibody
Product Gene Name	anti-ATG4A antibody
Product Synonym Names	Cysteine protease ATG4A (EC 3.4.22.-) (AUT-like 2 cysteine endopeptidase) (Autophagin-2) (Autophagy-related cysteine endopeptidase 2) (Autophagy-related protein 4 homolog A) (hAPG4A)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity Purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	40kDa
OMIM	AJ504651 mRNA
3D Structure	ModBase 3D Structure for Q8WYN0
Immunogen	Synthesized peptide derived from human ATG4A Polyclonal
Buffer	PBS with 0.02% sodium azide, 0.5% BSA and 50% glycerol pH 7.4.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATG4A antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ATG4A antibody	WB: 1:500-2000 ELISA: 1:10000-20000
Related Product Information for anti-ATG4A antibody	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. Transcript variants that encode distinct isoforms have been identified.
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.
Searchable Terms for ATG4A purchase	MBS2549797 is an antibody targeting ATG4A. Also known as ATG4A Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-ATG4A antibody
Western Blot analysis of Mouse liver using ATG4A Polyclonal Antibody at dilution of 1:1000.

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	ATG4A: Cysteine protease required for autophagy, which cleaves the C-terminal part of either MAP1LC3, GABARAPL2 or GABARAP, allowing the liberation of form I. A subpopulation of form I is subsequently converted to a smaller form (form II). Form II, with a revealed C-terminal glycine, is considered to be the phosphatidylethanolamine (PE)-conjugated form, and has the capacity for the binding to autophagosomes. Preferred substrate is GABARAPL2 followed by MAP1LC3A and GABARAP. Widely expressed, at a low level, and the highest expression is observed in skeletal muscle and brain. Also detected in fetal liver. Inhibited by N-ethylmaleimide. Belongs to the peptidase C54 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Autophagy; EC 3.4.22.-; Microtubule-binding; Protease Chromosomal Location of Human Ortholog: Xq22.3 Cellular Component: cytoplasm; cytosol Molecular Function: cysteine-type endopeptidase activity; cysteine-type peptidase activity; protein binding Biological Process: autophagosome assembly; C-terminal protein lipidation; mitochondrion degradation; protein delipidation; protein targeting to membrane; proteolysis
Research Articles on ATG4A	**1.** ATG4A promotes the metastasis of gastric cancer cells via the Notch signaling pathway, which is an autophagy-independent mechanism
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