ATG5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATG5, Polyclonal Antibody
Full Product Name	ATG5 Polyclonal Antibody
Product Gene Name	anti-ATG5 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	22kDa; 32kDa
OMIM	604261
3D Structure	ModBase 3D Structure for Q9H1Y0
Immunogen	Recombinant protein of human ATG5 (NP_004840.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATG5 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-ATG5 antibody	WB: 1:500-1:2000 IHC: 1:50-1:100 IF: 1:50-1:100
Related Product Information for anti-ATG5 antibody	The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. Several transcript variants encoding different protein isoforms have been found for this gene.
Other Notes	Small volumes of anti-ATG5 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 ATG5 purchase	MBS8566859 is an antibody targeting ATG5. Also known as ATG5 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATG5. It may not necessarily be applicable to this product.

NCBI GI #	17366828
NCBI GeneID	9474
NCBI Accession #	Q9H1Y0.2

UniProt Primary Accession #	Q9H1Y0
UniProt Related Accession #	Q9H1Y0
NCBI Official Full Name	Autophagy protein 5
NCBI Official Synonym Full Names	autophagy related 5
NCBI Official Symbol	ATG5
NCBI Official Synonym Symbols	ASP; APG5; APG5L; hAPG5; SCAR25; APG5-LIKE
UniProt Protein Name	Autophagy protein 5
UniProt Synonym Protein Names	APG5-like; Apoptosis-specific protein
Protein Family	Autophagy protein
UniProt Gene Name	ATG5
UniProt Synonym Gene Names	APG5L; ASP
UniProt Entry Name	ATG5_HUMAN
NCBI Protein Information	autophagy protein 5
UniProt Comments for ATG5	ATG5: Required for autophagy. Conjugates to ATG12 and associates with isolation membrane to form cup-shaped isolation membrane and autophagosome. The conjugate detaches from the membrane immediately before or after autophagosome formation is completed. The ATG5-ATG12 conjugate forms a complex with several units of ATG16. Interacts with TECPR1; the interaction is direct and does not take place when ATG16 is associated with the ATG5-ATG12 conjugate. By apoptotic stimuli. Ubiquitous. The mRNA is present at similar levels in viable and apoptotic cells, whereas the protein is dramatically highly expressed in apoptotic cells. Belongs to the ATG5 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin conjugating system; Autophagy; Apoptosis Chromosomal Location of Human Ortholog: 6q21 Cellular Component: membrane; pre-autophagosomal structure membrane; cytoplasm; autophagic vacuole; axoneme Molecular Function: protein binding; APG8 conjugating enzyme activity Biological Process: response to drug; response to fungus; apoptosis; ventricular cardiac muscle cell development; C-terminal protein lipidation; post-translational protein modification; vasodilation; regulation of release of sequestered calcium ion into cytosol; cellular response to nitrogen starvation; heart contraction; regulation of cytokine secretion during immune response; mitochondrion degradation; autophagy; innate immune response; negative regulation of protein ubiquitination; blood vessel remodeling; negative regulation of interferon type I production; otolith development; autophagic vacuole formation; negative regulation of apoptosis
Research Articles on ATG5	**1.** All 12 studied cases of dermatofibrosarcoma protuberans (DFSP) revealed weak to strong ATG5 positivity in tumor cells. In contrast, Atg5 was weakly positive for tumor cells in 3 out of 10 cases of dermatofibroma (DF). Results suggest that the combined analyses of CD34, ATG5 and PDGF-BB expressions in tumor cells might enable more precise diagnosis of DFSP.
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