ATG12 Complex (ATG5) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATG5-ATG12 Complex, Polyclonal Antibody
Full Product Name	ATG5-ATG12 Complex (MaxLight 490)
Product Gene Name	anti-Atg5 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with MaxLight490.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes mouse ATG5. Species Crossreactivity: Human
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	32,402 Da
3D Structure	ModBase 3D Structure for Q99J83
Immunogen	Synthetic peptide corresponding to aa262-275 from mouse ATG5 conjugated to KLH.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-Atg5 antibody	Antibodies; Autophagy
Applications Tested/Suitable for anti-Atg5 antibody	Western Blot (WB)
Application Notes for anti-Atg5 antibody	WB: 1.0-2.0ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-Atg5 antibody	MBS6444003 is an antibody targeting Atg5. Also known as ATG5-ATG12 Complex (MaxLight 490). Reactive in Mouse, Human. Host: Rabbit.
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Atg5. It may not necessarily be applicable to this product.

NCBI GI #	16716341
NCBI GeneID	11793
NCBI Accession #	NP_444299.1

UniProt Primary Accession #	Q99J83
UniProt Related Accession #	Q99J83
GenBank Nucleotide #	NM_053069.5
NCBI Official Full Name	autophagy protein 5
NCBI Official Synonym Full Names	autophagy related 5
NCBI Official Symbol	Atg5
NCBI Official Synonym Symbols	Apg5l; Atg5l; Paddy; C88337; AW319544; 2010107M05Rik; 3110067M24Rik
UniProt Protein Name	Autophagy protein 5
UniProt Synonym Protein Names	APG5-like
Protein Family	Autophagy protein
UniProt Gene Name	Atg5
UniProt Synonym Gene Names	Apg5l
UniProt Entry Name	ATG5_MOUSE
NCBI Protein Information	autophagy protein 5; autophagy-related 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: Apoptosis; Autophagy; Ubiquitin conjugating system Cellular Component: membrane; cytoplasm; pre-autophagosomal structure membrane; autophagic vacuole; axoneme Molecular Function: protein binding; APG8 conjugating enzyme activity Biological Process: response to drug; response to fungus; immune system process; 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; blood vessel remodeling; negative regulation of protein ubiquitination; otolith development; negative regulation of apoptosis; autophagic vacuole formation
Research Articles on Atg5	**1.** Autophagy adaptor protein p62/SQSTM1 and autophagy-related gene Atg5 mediate autophagosome formation in response to Mycobacterium tuberculosis infection in dendritic cells.
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