ATG10 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATG10, Polyclonal Antibody
Full Product Name	ATG10 Antibody; Biotin conjugated
Product Gene Name	anti-ATG10 antibody
Product Synonym Names	Ubiquitin-like-conjugating enzyme ATG10; Autophagy-related protein 10; APG10-like; ATG10; APG10L; PP12616
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: ATG10 (MBS7000183) Biotin Conjugated Antibody: ATG10 (MBS7002830)
Molecular Weight	14,217 Da
OMIM	610800
3D Structure	ModBase 3D Structure for Q9H0Y0
Immunogen	Recombinant human Ubiquitin-like-conjugating enzyme ATG10 protein
Conjugation	Biotin
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-70123 / sc-70125
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATG10 antibody	ELISA (EIA)
Related Product Information for anti-ATG10 antibody	E2-like enzyme involved in autophagy. Acts as an E2-like enzyme that catalyzes the conjugation of ATG12 to ATG5. ATG12 conjugation to ATG5 is required for autophagy. Likely serves as an ATG5-recognition molecule. Not involved in ATG12 conjugation to ATG3. Plays a role in adenovirus-mediated cell lysis.
Other Notes	Small volumes of anti-ATG10 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 ATG10 purchase	MBS7002830 is an antibody targeting ATG10. Also known as ATG10 Antibody; Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATG10. It may not necessarily be applicable to this product.

NCBI GI #	196162717

NCBI GeneID	83734
NCBI Accession #	NP_001124500.1
UniProt Primary Accession #	Q9H0Y0
UniProt Secondary Accession #	Q6PIX1; Q9H842; B2RE09
UniProt Related Accession #	Q9H0Y0
GenBank Nucleotide #	NM_001131028.1
NCBI Official Full Name	ubiquitin-like-conjugating enzyme ATG10
NCBI Official Synonym Full Names	autophagy related 10
NCBI Official Symbol	ATG10
NCBI Official Synonym Symbols	APG10; APG10L; pp12616
UniProt Protein Name	Ubiquitin-like-conjugating enzyme ATG10
UniProt Synonym Protein Names	Autophagy-related protein 10; APG10-like
Protein Family	Ubiquitin-like-conjugating enzyme
UniProt Gene Name	ATG10
UniProt Synonym Gene Names	APG10L; APG10-like
UniProt Entry Name	ATG10_HUMAN
NCBI Protein Information	ubiquitin-like-conjugating enzyme ATG10
NCBI Summary for ATG10	Autophagy is a process for the bulk degradation of cytosolic compartments by lysosomes. ATG10 is an E2-like enzyme involved in 2 ubiquitin-like modifications essential for autophagosome formation: ATG12 (MIM 609608)-ATG5 (MIM 604261) conjugation and modification of a soluble form of MAP-LC3 (MAP1LC3A; MIM 601242), a homolog of yeast Apg8, to a membrane-bound form (Nemoto et al., 2003 [PubMed 12890687]).[supplied by OMIM, Mar 2008]
UniProt Comments for ATG10	ATG10: E2-like enzyme involved in autophagy. Acts as an E2-like enzyme that catalyzes the conjugation of ATG12 to ATG5. ATG12 conjugation to ATG5 is required for autophagy. Likely serves as an ATG5-recognition molecule. Not involved in ATG12 conjugation to ATG3. Belongs to the ATG10 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Autophagy; Ubiquitin conjugating system; EC 6.3.2.- Chromosomal Location of Human Ortholog: 5q14.1 Cellular Component: cytosol; intracellular Molecular Function: APG12 conjugating enzyme activity; ligase activity Biological Process: autophagy; macroautophagy; positive regulation of protein modification process; protein amino acid lipidation; protein modification by small protein conjugation; protein transport
Research Articles on ATG10	**1.** results suggest that genetic variants in ATG10 may implicate with breast cancer susceptibility in Chinese population. Further large and functional studies are needed to confirm our findings
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