ATG7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATG7, Polyclonal Antibody
Full Product Name	ATG7 Rabbit Polyclonal Antibody
Product Gene Name	anti-ATG7 antibody
Product Synonym Names	Ubiquitin-like modifier-activating enzyme ATG7; ATG12-activating enzyme E1 ATG7; Autophagy-related protein 7; APG7-like; hAGP7; Ubiquitin-activating enzyme E1-like protein; ATG7; APG7L
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	78
OMIM	608760
3D Structure	ModBase 3D Structure for O95352
Immunogen	Recombinant Protein of ATG7
Storage Buffer	PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATG7 antibody	Immunohistochemistry (IHC) Paraffin
Application Notes for anti-ATG7 antibody	IHC-p: 1:50-300
Related Product Information for anti-ATG7 antibody	MBS8528920 is an antibody targeting ATG7. Also known as ATG7 Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-ATG7 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 ATG7. It may not necessarily be applicable to this product.

NCBI GI #	222144227
NCBI GeneID	10533
NCBI Accession #	NP_001129503.2
UniProt Primary Accession #	O95352
UniProt Secondary Accession #	Q7L8L0; Q9BWP2; Q9UFH4; B4E170; E9PB95
UniProt Related Accession #	O95352

GenBank Nucleotide #	NM_001136031.2
NCBI Official Full Name	ubiquitin-like modifier-activating enzyme ATG7 isoform b
NCBI Official Synonym Full Names	autophagy related 7
NCBI Official Symbol	ATG7
NCBI Official Synonym Symbols	GSA7; APG7L; APG7-LIKE
UniProt Protein Name	Ubiquitin-like modifier-activating enzyme ATG7
UniProt Synonym Protein Names	ATG12-activating enzyme E1 ATG7; Autophagy-related protein 7; APG7-like; hAGP7; Ubiquitin-activating enzyme E1-like protein
Protein Family	Ubiquitin-like modifier-activating enzyme
UniProt Gene Name	ATG7
UniProt Synonym Gene Names	APG7L; APG7-like; hAGP7
NCBI Protein Information	ubiquitin-like modifier-activating enzyme ATG7
NCBI Summary for ATG7	This gene encodes an E1-like activating enzyme that is essential for autophagy and cytoplasmic to vacuole transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]
UniProt Comments for ATG7	E1-like activating enzyme involved in the 2 ubiquitin-like systems required for cytoplasm to vacuole transport (Cvt) and autophagy. Activates ATG12 for its conjugation with ATG5 as well as the ATG8 family proteins for their conjugation with phosphatidylethanolamine. Both systems are needed for the ATG8 association to Cvt vesicles and autophagosomes membranes. Required for autophagic death induced by caspase-8 inhibition. Required for mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Modulates p53/TP53 activity to regulate cell cycle and survival during metabolic stress. Plays also a key role in the maintenance of axonal homeostasis, the prevention of axonal degeneration, the maintenance of hematopoietic stem cells, the formation of Paneth cell granules, as well as in adipose differentiation.
Research Articles on ATG7	**1.** miR-210 inhibits autophagy via silencing of ATG7.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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