ATG7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATG7, Polyclonal Antibody
Full Product Name	ATG7 (C-Term) Rabbit pAb
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
Isotype	Ig
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Saturated Ammonium Sulfate (SAS)
OMIM	608760
3D Structure	ModBase 3D Structure for O95352
Immunogen	This ATG7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 540-569 amino acids from the C-terminal region of human ATG7.
Cellular Localization	Cytoplasm
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATG7 antibody	Western Blot (WB)
Application Notes for anti-ATG7 antibody	WB: 1:1000
Related Product Information for anti-ATG7 antibody	MBS8558526 is an antibody targeting ATG7. Also known as ATG7 (C-Term) Rabbit pAb. Reactive in Human, Mouse. 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 Related Accession #	O95352

GenBank Nucleotide #	NP_001129503.2
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
UniProt Entry Name	ATG7_HUMAN
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]
Research Articles on ATG7	**1.** Atg7 binds PKM2 and prevents its Tyr-105 phosphorylation by FGFR1. Furthermore, the hyperphosphorylation of PKM2 and its induced Warburg effect due to Atg7 deficiency promote epithelial-mesenchymal transition (EMT). Conversely, overexpression of Atg7 inhibits PKM2 phosphorylation and the Warburg effect, thereby inhibiting EMT of tumor cells.
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