ATG1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATG1, Polyclonal Antibody
Full Product Name	ATG1 Antibody
Product Gene Name	anti-ATG1 antibody
Product Synonym Names	Serine/threonine-protein kinase ATG1; Autophagy-related protein 1; ATG1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Candida glabrata
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: ATG1 (MBS7006616) Biotin Conjugated Antibody: ATG1 (MBS7000392)
Matching Pairs	Unconjugated Antibody: ATG1 (MBS7006616) HRP Conjugated Antibody: ATG1 (MBS7005436)
Matching Pairs	Unconjugated Antibody: ATG1 (MBS7006616) FITC Conjugated Antibody: ATG1 (MBS7005676)
Molecular Weight	107,095 Da
3D Structure	ModBase 3D Structure for Q6FL58
Immunogen	Recombinant Candida glabrata Serine/threonine-protein kinase ATG1 protein
Conjugation	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATG1 antibody	ELISA (EIA)
Related Product Information for anti-ATG1 antibody	Serine/threonine protein kinase involved in the cytoplasm to vacuole transport (Cvt) and found to be essential in autophagy, where it is required for the formation of autophagosomes. Involved in the clearance of protein aggregates which cannot be efficiently cleared by the proteasome. Required for selective autophagic degradation of the nucleus (nucleophagy) as well as 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. Also involved in endoplasmic reticulum-specific autophagic process, in selective removal of ER-associated degradation (ERAD) substrates. Plays a key role in ATG9 and ATG23 cycling through the pre-autophagosomal structure and is necessary to promote ATG18 binding to ATG9 through phosphorylation of ATG9.
Other Notes	Small volumes of anti-ATG1 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 ATG1 purchase	MBS7006616 is an antibody targeting ATG1. Also known as ATG1 Antibody. Reactive in Candida glabrata. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATG1. It may not necessarily be applicable to this product.

NCBI GI #	50293249
NCBI GeneID	2890744
NCBI Accession #	XP_449036.1
UniProt Primary Accession #	Q6FL58
UniProt Related Accession #	Q6FL58
GenBank Nucleotide #	XM_449036.1
NCBI Official Full Name	hypothetical protein
NCBI Official Symbol	CAGL0L06006g
UniProt Protein Name	Serine/threonine-protein kinase ATG1
UniProt Synonym Protein Names	Autophagy-related protein 1
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	ATG1
UniProt Entry Name	ATG1_CANGA
NCBI Protein Information	hypothetical protein
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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