

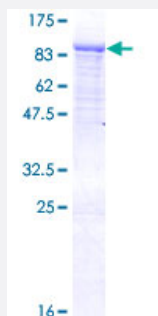
Full-Length

ATG7 (Human) Recombinant Protein (P01)

Catalog # H00010533-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ATG7 full-length ORF (NP_006386.1, 1 a.a. - 703 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAAATGDPGLSKLQFAPFSSALDVGFWHELTQKKLNEYRLDEAPKDIKGYYYNGDSAGLPARLTL
EFSAFDMSAPTPARCCPAIGTL YNTNTLESFKTADKLLLEQAANEWESIKSGTALENPVLLNKFL
LLTFADLKKYHFYYWFCYPALCLPESLPLIQGPVGLDQRFSLKQIEALECAYDNLCQTEGV TALPYF
LIKYDENMVLVSLLKHYSDFQGGQRTKITIGVYDPCNLAQYPGWPLRNFLVLAHRWSSSFQSVEV
VCFRDRTMQGARDVAHSIIFEVKLPEMAFSPDCPKAVGWKNQKGGMGPRMVNLSECMDPKR
LAESSVDLNLKLMCWRLVPTLDLDKVVSVKCLLLGAGTLGCNVARTLMGWGVRHITFVDNAKISY
SNPVRQPLYEFEDCLGGGKPKALAAADRLQKIFPGVNARGFNMSIPMPGHPVNFSSVTLEQARR
DVEQLEQLIESHDVVFLLMDTRESRWLPAVIAASKRKLVINAAALGFDTFVVMRHGLKKPKQQGAG
DLCPNHPVASADLLGSSLFANIPGYKLGCYFCNDVVAPGDSTRDRTL DQQCTVSRPGLAVIAGAL
AVELMVSVLQHPEGGYAIASSSDDRMNEPPTSLGLVPHQIRGFLSRFDNVLPVSLAFDKCTACSS
KVLDQYEREGFNFLAKVFNSSHSEFLEDLTGLTLLHQETQAAEIWDMSSDETI

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

104.4

Interspecies Antigen Sequence

Mouse (93); Rat (93)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ATG7

Entrez GeneID	10533
GeneBank Accession#	NM_006395.1
Protein Accession#	NP_006386.1
Gene Name	ATG7
Gene Alias	APG7-LIKE, APG7L, DKFZp434N0735, GSA7
Gene Description	ATG7 autophagy related 7 homolog (S. cerevisiae)
Omim ID	608760
Gene Ontology	Hyperlink
Gene Summary	This gene was identified based on homology to Pichia pastoris GSA7 and Saccharomyces cerevisiae APG7. In the yeast, the protein appears to be required for fusion of peroxisomal and vacuolar membranes. The protein shows homology to the ATP-binding and catalytic sites of the E1 ubiquitin activating enzymes. [provided by RefSeq]
Other Designations	APG7 autophagy 7-like ubiquitin activating enzyme E1-like protein

Publication Reference

- [A complex between Atg7 and caspase-9: a novel mechanism of cross-regulation between autophagy and apoptosis.](#)

Han J, Hou W, Goldstein LA, Stolz DB, Watkins SC, Rabinowich H.

The Journal of Biological Chemistry 2014 Mar; 289(10):6485.

Application: Func, Recombinant protein

Pathway

- [Regulation of autophagy](#)

Disease

- [Disease Progression](#)
- [Disease Susceptibility](#)
- [HIV Infections](#)
- [Huntington Disease](#)
- [Tobacco Use Disorder](#)