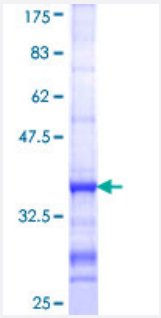
APG7L (Human) Recombinant Protein (Q01)

Catalog # H00010533-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human APG7L partial ORF (NP_006386, 1 a.a. - 100 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAAATGDPGLSKLQFAPFSSALDVGFWHELTQKKLNEYRLDEAPKDIKGYYYNGDSAGLPARLTLEFSAFDMSAPTPARCCPAIGTLYNTNTLESFKTAD
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
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
Protein Accession#	NP_006386
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

- Akt Suppresses Retrograde Degeneration of Dopaminergic Axons by Inhibition of Macroautophagy.

  Cheng HC, Kim SR, Oo TF, Kareva T, Yarygina O, Rzhetskaya M, Wang C, During M, Talloczy Z, Tanaka K, Komatsu M, Kobayashi K, Okano H, Kholodilov N, Burke RE.

  The Journal of Neuroscience 2011 Feb; 31(6):2125.

  Application: IF, Mouse, Brain

Pathway

- Regulation of autophagy

Disease

- Disease Progression
- Disease Susceptibility
- HIV Infections
- Huntington Disease
- Tobacco Use Disorder