Recombinant Mouse Atg4b Protein, Myc/DDK-tagged

Cat. No. Atg4b-1760M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length autophagy related 4B, cysteine peptidase (Atg4b), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3, GABARAPL1, GABARAPL2 and GABARAP, to reveal a C-terminal glycine. Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy. Has also an activity of delipidating enzyme for the PE-conjugated forms.
Molecular Mass	44.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method

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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Atg4b autophagy related 4B, cysteine peptidase [Mus musculus (house mouse)]
Official Symbol	Atg4b
Synonyms	ATG4B; autophagy-related 4B (yeast); cysteine protease ATG4B; autophagin 1; autophagin-1; AUT-like 1 cysteine endopeptidase; AUT-like 1, cysteine endopeptidase; autophagy-related protein 4 homolog B; APG4 (ATG4) autophagy-related homolog B; autophagy-related cysteine endopeptidase 1; cysteine protease involved in autophagy APG4-B; Apg4b; Autl1; Atg4bl; AW048066; 2510009N07Rik
Gene ID	66615
mRNA Refseq	NM_174874
Protein Refseq	NP_777363
UniProt ID	Q8BGE6

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