

Recombinant Mouse Atg4c Protein, Myc/DDK-tagged

Cat. No. Atg4c-1761M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length autophagy related 4C, cysteine peptidase (Atg4c), 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 and GABARAPL2, 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. Is not essential for autophagy development under normal conditions but is required for a proper autophagic response under stressful conditions such as prolonged starvation.
Molecular Mass	52.1 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.

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Concentration >50 µg/mL as determined by microplate BCA method

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

GENE INFORMATION

Gene Name *Atg4c* autophagy related 4C, cysteine peptidase [*Mus musculus* (house mouse)]

Official Symbol *Atg4c*

Synonyms ATG4C; autophagy-related 4C (yeast); cysteine protease ATG4C; autophagin 3; autophagin-3; AUT-like 3 cysteine endopeptidase; AUT-like 1, cysteine endopeptidase; autophagy-related protein 4 homolog C; APG4 (ATG4) autophagy-related homolog C; cysteine protease involved in autophagy; autophagy-related cysteine endopeptidase 3; Apg4c; Autl1; Apg4-C; Atg4cl

Gene ID 242557

mRNA Refseq NM_001145967

Protein Refseq NP_001139439

UniProt ID Q811C2

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