

Recombinant Human ATG4B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ATG4B-5909H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATG4B MS Standard C13 and N15-labeled recombinant protein (NP_037457) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Molecular Mass	44.3 kDa
AA Sequence	MDAATLTYDTLRFAEFEDFPETSEPVWILGRKYSIFTEKDEILSDVASRLWFTYRKNP PAIGGTGPTSDTGWGCMLRCGQMIFAQALVCRHLGRDWRWTQQRKQPDSYFSVL NAFIDRKDSYYSIHQIAQMGVGEKSGIQWYGPNTVAQVLKKLAVFDTWSSLAVHIA MDNTVVMEEIRRLCRTSVPCAGATAFPADSDRHCNGFPAGAEVTNRPSWRPLVLL

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IPLRLGLTDINEAYVETLKHC FMMPQSLGVIGGKPN SAHYFIGYVGEELIYLPHTTQP
 AVEPTDGC FIPDES FHCQHPPCRMSIAELDPSI AVGFFCKTEDDFNDWCQQVKKLSL
 LGGALPMFELVEQQPSHLACPDVLNLSLDSSDVERLERFFDSEDED FEILSLTRTRP
 LEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ATG4B autophagy related 4B cysteine peptidase \[Homo sapiens \(human\) \]](#)

Official Symbol [ATG4B](#)

Synonyms ATG4B; ATG4 autophagy related 4 homolog B (S. cerevisiae); APG4 autophagy 4 homolog B (S. cerevisiae), APG4B; cysteine protease ATG4B; Apg4B; AUTL1; DKFZp586D1822; KIAA0943; hAPG4B; autophagin-1; APG4 autophagy 4 homolog B; AUT-like 1 cysteine endopeptidase; autophagy-related protein 4 homolog B; autophagy-related cysteine endopeptidase 1; APG4B; MGC1353;

Gene ID [23192](#)

mRNA Refseq [NM_013325](#)

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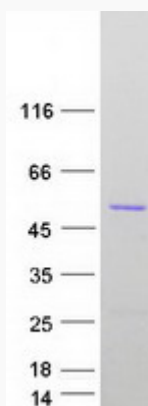
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Protein Refseq NP_037457

MIM 611338

UniProt ID Q9Y4P1

SDS-PAGE



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