

Recombinant Human ATG4B, His-tagged

Cat. No. ATG4B-26192TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-393 of Human ATG4B with N terminal His tag, 58kDa.
Species	Human
Source	E.coli
ProteinLength	1-393 a.a.
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.
Conjugation	HIS
Tissue specificity	Mainly expressed in the skeletal muscle, followed by brain, heart, liver and pancreas.
Form	Lyophilised:Reconstitute with 65 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MDAATLTYDTLRFAEFEDFPETSEPVWILGRKYSIFTEKD EILSDVASRLWFTYRKNF PAIGGTGPTSDTGWGCMLRC GQMIFAQALVCRHLGRDWRWTQRKRQPDYSFVSL NAFIDRKDSYYSIHQIAQMGVGEKSGIQWYGPNTVAQVLKLA VFDTWSSLAVHIA MDNTVVMEEIRRLCRTSVPCAGATA FPADSDRHCNGFPAGAEVTNRPSWRPLVL LIPLRLGLTDINEAYVETLKHCFMMPQSLGVIGGKPN SAHYFIGYVGE ELIYLPHTT QPAVEPTDGC FIPDES FHCQHPPCRMSI AELDPSIAVGFFCKTEDDFNDWCQQVKK LSLLGGALPMFELVELQPSHLACPDVLNLSLDSSDVERLERFFDSEDEDF EILSL
Sequence Similarities	Belongs to the peptidase C54 family.
Full Length	Full L.
GENE INFORMATION	
Gene Name	ATG4B ATG4 autophagy related 4 homolog B (S. cerevisiae) [Homo sapiens]
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;
Gene ID	23192
mRNA Refseq	NM_013325

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Protein Refseq	NP_037457
MIM	611338
Uniprot ID	Q9Y4P1
Chromosome Location	2q37.3
Pathway	Regulation of autophagy, organism-specific biosystem; Regulation of autophagy, conserved biosystem;
Function	cysteine-type peptidase activity; peptidase activity; protein binding;

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