

## Recombinant Human ATG4B, His-tagged

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

### SPECIFICATION

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

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|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>           | Preservative: None<br>Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5                                                                                                                                                                                                                                                                                                                              |
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Sequences of amino acids</b> | MDAATLT YD TLRFAEFEDFPETSEPVWILGRKYSIFTEKD EILSDVASRLWFTYRKNF<br>PAIGGTGPTSDTGWGCMLRC GQMIFAQALVCRHLGRDWRWTQRKRQPD SYFSVL<br>NAFIDRKDSYYSIHQIAQMGVGE GKSIGQWYGPNTVAQVLKKLA VFDTWSSLAVHIA<br>MDNTVVMEEIRRLCRTSVPCAGATA FPADSDRHCNGFPAGAEVTNRPSWRPLVL<br>LIPLRLGLTDINEAYVETLKHCFMMPQSLGVIGGKPN SAHYFIGYVGE ELIYLDPHTT<br>QPAVEPTDGC FIPDES FHCQHPPCRMSI AELDPSIAVGFFCKTEDDFNDWCQQVKK<br>LSLLGGALPMFELVELQPSHLACPDVLNLSLDSSDVERLERFFDSEDEDF EILSL |
| <b>Sequence Similarities</b>    | Belongs to the peptidase C54 family.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Full Length</b>              | Full L.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>GENE INFORMATION</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>                | ATG4B ATG4 autophagy related 4 homolog B (S. cerevisiae) [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>          | ATG4B                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>                 | ATG4B; ATG4 autophagy related 4 homolog B (S. cerevisiae); APG4 autophagy 4 homolog B (S. cerevisiae) , APG4B; cysteine protease ATG4B; Apg4B; AUTL1; DKFZp586D1822; KIAA0943;                                                                                                                                                                                                                                                                 |
| <b>Gene ID</b>                  | 23192                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>              | 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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