

AR50256PU-N

Human APG4B / ATG4B (1-393, His-tag) - Purified

Alternate names:

AUT-like 1 cysteine endopeptidase, AUTL1, Autophagin-1, Autophagy-related cysteine endopeptidase 1, Autophagy-related protein 4 homolog B, Cysteine protease ATG4B, KIAA0943

Quantity:

0.5 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

ATG4B, also known as cysteine protease ATG4B, is a cysteine protease required for autophagy, which cleaves the C-terminal part of either MAP1LC3, GABARAPL2 or GABARAP, allowing the liberation of form I. A subpopulation of form I is subsequently converted to a smaller form (form II). Form II, with a revealed C-terminal glycine, is considered to be the phosphatidylethanolamine (PE)-conjugated form, and has the capacity for the binding to autophagosomes.

Uniprot ID:

[Q9Y4P1](#)

NCBI:

[AAH00719](#)

GenelD:

[23192](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT, 0.1mM PMSF

Description:

Recombinant human ATG4B protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

MDAATLTYDT LRFAEFEDFP ETSEPVWILG RKYSIFTEKD EILSDVASRL WFTYRKNFPA
IGGTGPTSDT GWGMLRCGQ MIFAQALVCR HLGRDWRWTQ RKRQPDSYFS VLNAFIDRKD
SYYSIHQIAQ MGVGEGKSIG QWYGPNVTAQ VLKKLAVFDT WSSLAVHIAM DNTVVMEEIR
RLCRTSVPCA GATAFPADSD RHCNGFPAGA EVTNRPSWR PLVLLIPLRL GLTDINEAYV
ETLKHCFMMP QSLGVIGGKP NSAHYFIGYV GEELIYLDPH TTQPAVEPTD GCFIPDESFH
CQHPPCRMSI AELDPSIAVG FFCKTEDDFN DWCQVVKKLS LLGGALPMFE LVEQQPSHLA
CPDVLNLSLD SSDVERLERF FDSEDEDFEI LSLLEHHHHH H

Molecular weight: 45.4 kDa (401aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

Sugawara K., et al. (2005) J. Biol. Chem. 280:40058-40065 Kumanomidou T., et al. (2006) J. Mol. Biol. 355:612-618