NKMAXBio We support you, we believe in your research

Recombinant human ATG4B protein

Catalog Number: ATGP1431

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-393aa

UniProt No.
Q9Y4P1

NCBI Accession No.
AAH00719.1

Alternative Names
Cysteine protease ATG4B, AuTL1, Autophagin-1

PRODUCT SPECIFICATION

Molecular Weight
45.3 kDa (401aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT, 0.1mM PMSF

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

Recombinant human ATG4B protein

Catalog Number: ATGP1431

Amino acid Sequence

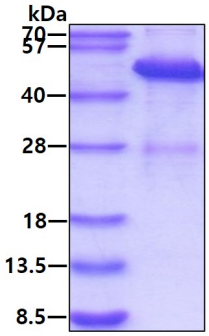
MDAATLTYDT LRFAEFEDFP ETSEPVWILG RKYSIFTEKD EILSDVASRL WFTYRKNFPA IGGTGPTSDT GWGCMLRCGQ MIFAQALVCR HLGRDWRWTQ RKRQPDSYFS VLNAFIDRKD SYYSIHQIAQ MGVGEGKSIG QWYGPNTVAQ VLKKLAVFDT WSSLAVHIAM DNTVVMEEIR RLCRTSVPCA GATAFPADSD RHCNGFPAGA EVTNRPSPWR PLVLLIPLRL GLTDINEAYV ETLKHCFMMP QSLGVIGGKP NSAHYFIGYV GEELIYLDPH TTQPAVEPTD GCFIPDESFH CQHPPCRMSI AELDPSIAVG FFCKTEDDFN DWCQQVKKLS LLGGALPMFE LVEQQPSHLA CPDVLNLSLD SSDVERLERF FDSEDEDFEI LSL<LEHHHHH H>

General References

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.