

# Recombinant human LC3B/MAP1LC3B protein

Catalog Number: ATGP1039

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-120aa

### UniProt No.

A6NCE7

### NCBI Accession No.

NP\_001078950

### Alternative Names

Microtubule-associated proteins 1A/1B light chain 3B, Microtubule associated protein 1 light chain 3 beta, MAP1ALC3, MAP1A/MAP1B light chain 3 B, MAP1A/MAP1B LC3 B, MAP1 light chain 3-like protein 2, Autophagy-related ubiquitin-like modifier LC3 B, Autophagy-related protein LC3 B, ATG8F

## PRODUCT SPECIFICATION

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### Molecular Weight

16.2 kDa (140aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

### Purity

> 95% 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

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### Description

Microtubule-associated proteins 1A/1B light chain 3 beta 2, also as known as MAP1LC3B2, belongs to the MAP1LC3 family. MAP1LC3B2 is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. This protein probably involved in formation of autophagosomal vacuoles (autophagosomes). It is expressed primarily in heart, testis, brain and

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skeletal muscle and testis. Recombinant human MAP1LC3B2 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MPSEKTFKQR RTFEQRVEDV RLIREQHPTK IPVIIERYKG EKQLPVLDKT KFLVPDHVNM  
SELIKIIRRR LQLNANQAFF LLVNGHSMVS VSTPISEVYE SEKDEDGFLY MVCASQETFG

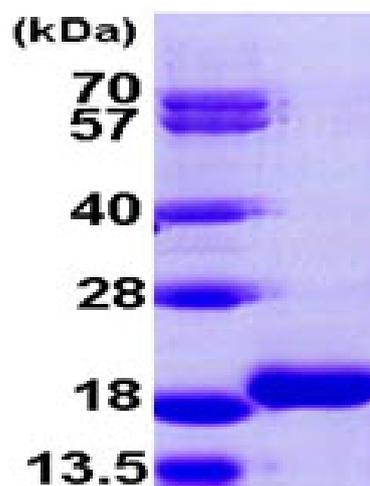
### General References

He H., et al. (2003) *J. Biol. Chem.* 278:29278-29287

Seidenbecher C.I., et al. (2004) *J. Mol. Biol.* 336:957-970

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3 $\mu$ g)