

Human LC3B / MAP1LC3B Protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 14555-H07E

General Information

Gene Name Synonym:

ATG8F; LC3B; MAP1A/1BLC3; MAP1LC3B-a

Protein Construction:

A DNA sequence encoding the human MAP1LC3B (Q9GZQ8) (Met1-Val125) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: ≥ 90 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human MAP1LC3B consists of 140 amino acids and predicts a molecular mass of 16.5 KDa. It migrates as an approximately 17 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Supplied as sterile PBS, 20% glycerol, pH 7.4.

Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

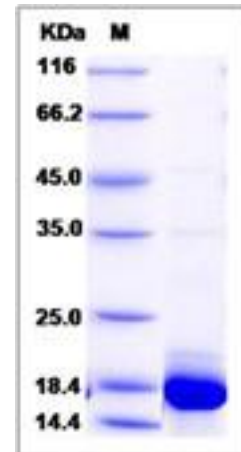
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

LC3B, also known as MAP1LC3B, is a member of the MAP1 LC3 family. It is most abundantly expressed in heart, brain, skeletal muscle and testis. LC3B is a subunit of neuronal microtubule and functions in formation of autophagosomal vacuoles (autophagosomes). It associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. LC3B also plays a role in autophagy, a process that involves the bulk degradation of cytoplasmic component.

References

1.Behrends C. et al., 2010, Nature. 466 (7302): 68-76. 2.Tanida I. et al., 2005, Int J Biochem Cell Biol. 36 (12): 2503-18. 3.Kabeya Y. et al., 2000, EMBO J. 19 (21): 5720-8.

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