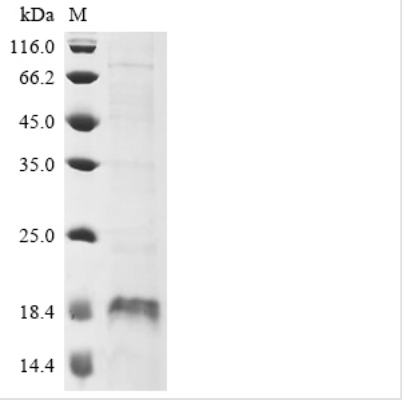
Recombinant Human Microtubule-associated proteins 1A/1B light chain 3B (MAP1LC3B)

Product Code	CSB-YP887936HU
Abbreviation	Recombinant Human MAP1LC3B protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9GZQ8
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MPSEKTFKQRRTFEQRVEDVRLIREQHPTKIPVIIERYKGEKQLPVLDKTKFLVP DHVNMSELIKIIRRRLQLNANQAFFLLVNGHSMVSVSTPISEVYESEKDEDGFL YMVYASQETFG
Research Area	Cancer
Source	Yeast
Target Names	MAP1LC3B
Expression Region	1-120aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	15.2 kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The expression region of this recombinant Human MAP1LC3B covers amino acids 1-120. This MAP1LC3B protein is theoretically predicted to have a molecular weight of 15.2 kDa. The MAP1LC3B protein was expressed in yeast. The MAP1LC3B coding gene included the N-terminal 6xHis tag, which simplifies the detection and purification processes of the recombinant MAP1LC3B protein in following stages of expression and purification.

The human microtubule-associated protein 1A/1B light chain 3B (MAP1LC3B) is a crucial protein involved in autophagy, a cellular process responsible for degrading and recycling damaged or dysfunctional cellular components. MAP1LC3B is a key component of the autophagosome, a double-membrane vesicle that engulfs cellular material targeted for degradation. It undergoes a series of post-translational modifications during autophagy, including lipidation, which facilitates its association with autophagosomal membranes. MAP1LC3B is widely used as a marker for autophagy, and its levels and localization are indicative of autophagic activity. Understanding the function of MAP1LC3B contributes to unraveling the complex regulatory mechanisms of autophagy and its implications in various physiological and pathological conditions, including cancer and neurodegenerative diseases.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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