

## MAP1LC3B Protein, Human, Recombinant (His)

### General Information

Synonyms:	microtubule-associated protein 1 light chain 3 beta;ATG8F;MAP1LC3B-a;MAP1A/1BLC3;LC3B; microtubule-associated protein 1 light chain 3 $\beta$
Protein Construction:	A DNA sequence encoding the human MAP1LC3B (Q9GZQ8) (Met1-Val125) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	Q9GZQ8
Molecular Weight:	16.5 kDa (predicted); 17 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	$\geq 90\%$ as determined by SDS-PAGE. $\geq 95\%$ as determined by SEC-HPLC.
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile PBS, 20% glycerol, pH 7.4.

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

It is recommended to store the product under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

MAP1LC3B (Microtubule Associated Protein 1 Light Chain 3 beta, also known as LC3B) is a Protein Coding gene. The product of this gene is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. LC3B is a member of the MAP1 LC3 family. It is most abundantly expressed in the heart, brain, skeletal muscle, and testis. LC3B is a subunit of the neuronal microtubule and functions in the formation of autophagosomal vacuoles (autophagosomes). It is associated with 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 the cytoplasmic component.

Reference

- Behrends C. et al., 2010, Nature. 466 (7302): 68-76.  
Tanida I. et al., 2005, Int J Biochem Cell Biol. 36 (12): 2503-18.  
Kabeya Y. et al., 2000, EMBO J. 19 (21): 5720-8.  
Cherra SJ. et al., 2010, J Cell Biol. 190 (4): 533-9.

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