

## Recombinant Human MAP1LC3B Protein(Sumo Tag)

Catalog Number: PDEH100509

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

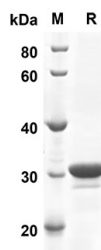
### Description

Species	Human
Source	E.coli-derived Human MAP1LC3B protein His27-Val125, with an N-terminal Sumo
Calculated MW	23.7 kDa
Observed MW	31 kDa
Accession	Q9GZQ8
Bio-activity	Not validated for activity

### Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

### Data



SDS-PAGE analysis of Human MAP1LC3B proteins, 2 µg/lane of Recombinant Human MAP1LC3B proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 23.7 KD

### Background

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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. Studies on the rat homolog implicate a role for this gene in autophagy, a process that involves the bulk degradation of cytoplasmic component.

MAP1LC3B (Microtubule Associated Protein 1 Light Chain 3 Beta) is a Protein Coding gene. Diseases associated with MAP1LC3B include Sporadic Pheochromocytoma and Lacrimal Gland Adenocarcinoma. Among its related pathways are Vesicle-mediated transport and Senescence and Autophagy in Cancer. GO annotations related to this gene include microtubule binding. An important paralog of this gene is MAP1LC3B2.