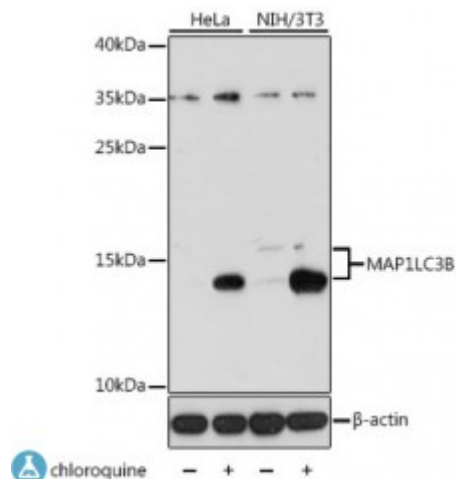


## Anti-MAP1LC3B Antibody



### Description

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.

**Model** STJ117779

**Host** Rabbit

**Reactivity** Human, Mouse

**Applications** IF, IHC, WB

**Immunogen** Recombinant fusion protein containing a sequence corresponding to amino acids 1-125 of human MAP1LC3B (NP\_073729.1).

**Gene ID** [81631](#)

**Gene Symbol** [MAP1LC3B](#)

**Dilution range**  
WB 1:500 - 1:2000  
IHC 1:50 - 1:200  
IF 1:50 - 1:200

**Tissue Specificity** Most abundant in heart, brain, skeletal muscle and testis, Little expression observed in liver

**Purification** Affinity purification

**Note** For Research Use Only (RUO).

**Protein Name** Microtubule-associated proteins 1A/1B light chain 3B Autophagy-related protein LC3 B Autophagy-related ubiquitin-like modifier LC3 B MAP1 light

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | chain 3-like protein 2 MAP1A/MAP1B light chain 3 B MAP1A/MAP1B LC3 B Microt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Weight</b>                 | 14.688 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clonality</b>                        | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Conjugation</b>                      | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Isotype</b>                          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Formulation</b>                      | PBS with 0.02% sodium azide, 50% glycerol, pH7.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Instruction</b>              | Store at -20C. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Database Links</b>                   | <a href="#">HGNC:13352</a> <a href="#">OMIM:609604</a> <a href="#">Reactome:R-HSA-1632852</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Alternative Names</b>                | Microtubule-associated proteins 1A/1B light chain 3B Autophagy-related protein LC3 B Autophagy-related ubiquitin-like modifier LC3 B MAP1 light chain 3-like protein 2 MAP1A/MAP1B light chain 3 B MAP1A/MAP1B LC3 B Microt                                                                                                                                                                                                                                                                                                                                                              |
| <b>Function</b>                         | Ubiquitin-like modifier involved in formation of autophagosomal vacuoles (autophagosomes), Plays a role in mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production, Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation, Promotes primary ciliogenesis by removing OFD1 from centriolar satellites via the autophagic pathway, |
| <b>Cellular Localization</b>            | Cytoplasm, cytoskeleton, Endomembrane system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Post-translational Modifications</b> | The precursor molecule is cleaved by ATG4B to form the cytosolic form, LC3-I, This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, LC3-II , Interaction with MAPK15 reduces the inhibitory phosphorylation and increases autophagy activity,                                                                                                                                                                                                                                                                             |