

## Anti-MAP1LC3A Antibody (5H585)

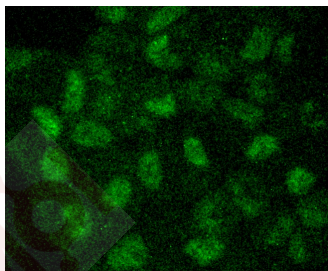
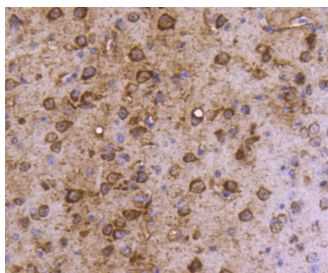
### Product Details

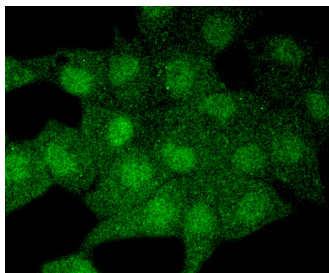
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 14 kDa.
Clone:	5H585
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of MAP1LC3A on mouse brain lysates using anti-MAP1LC3A antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-MAP1LC3A antibody. Counter stained with hematoxylin.
3. ICC staining MAP1LC3A in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
4. ICC staining MAP1LC3A in PMVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC,IHC,IP,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC: 1:50-200

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### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q9H492

Synonyms: LC3A;microtubule-associated protein 1 light chain 3 alpha;LC3;microtubule-associated protein 1 light chain 3  $\alpha$ ;MAP1BLC3;ATG8E;MAP1ALC3

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### Research Background

Microtubule-associated proteins (MAPs) regulate microtubule stability and play critical roles in neuronal development and in maintaining the balance between neuronal plasticity and rigidity. MAP-light chain 3 beta (MAP-LC3 $\beta$ ) and MAP-light chain 3 alpha (MAP-LC3 $\alpha$ ), both of which are mammalian homologs of yeast Apg8, are subunits that can associate with either MAP-1A or MAP-1B. While MAP-LC3 $\beta$  is essential for autophagy and is associated with autophagosome membranes after processing, MAP LC3 $\alpha$  is involved in the formation of autophagosomal vacuoles and is localized to the intracytoplasmic membrane. MAP LC3 $\alpha$  is expressed as two alternatively spliced isoforms that are expressed in testis, brain, heart, liver and skeletal muscle, but are absent in thymus and peripheral blood leukocytes.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481

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