

**MAP1B Antibody (clone 3G5)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS13880****Specification**

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**MAP1B Antibody (clone 3G5) - Product Information**

Application	IHC
Primary Accession	<a href="#">P46821</a>
Reactivity	Human, Rat, Bovine
Host	Mouse
Clonality	Monoclonal
Calculated MW	271kDa KDa

**MAP1B Antibody (clone 3G5) - Additional Information****Gene ID** 4131**Other Names**

Microtubule-associated protein 1B, MAP-1B, MAP1B heavy chain, MAP1 light chain LC1, MAP1B

**Reconstitution & Storage**

Stable for 24 months when stored at 2-8°C.

**Precautions**

MAP1B Antibody (clone 3G5) is for research use only and not for use in diagnostic or therapeutic procedures.

**MAP1B Antibody (clone 3G5) - Protein Information****Name** MAP1B**Function**

Facilitates tyrosination of alpha-tubulin in neuronal microtubules (By similarity). Phosphorylated MAP1B is required for proper microtubule dynamics and plays a role in the cytoskeletal changes that accompany neuronal differentiation and neurite extension (PubMed:<a href="http://www.uniprot.org/citations/33268592" target="\_blank">33268592</a>). Possibly MAP1B binds to at least two tubulin subunits in the polymer, and this bridging of subunits might be involved in nucleating microtubule polymerization and in stabilizing microtubules. Acts as a positive cofactor in DAPK1-mediated autophagic vesicle formation and membrane blebbing.

**Cellular Location**

Cytoplasm, cytoskeleton. Cytoplasm Synapse. Cell projection, dendritic spine Note=Colocalizes with DAPK1 in the microtubules and cortical actin fibers.

**Volume**

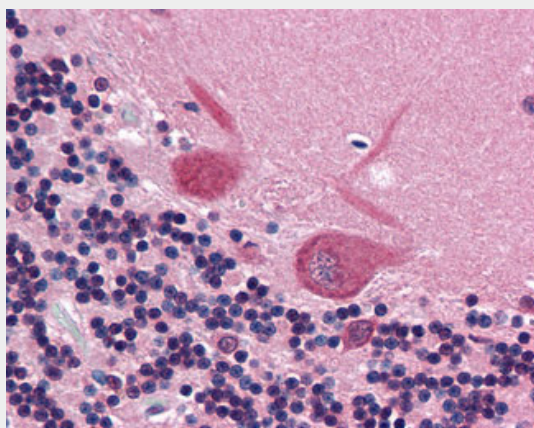
125 µl

## MAP1B Antibody (clone 3G5) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## MAP1B Antibody (clone 3G5) - Images



Anti-MAP1B antibody IHC of human brain, cerebellum.

## MAP1B Antibody (clone 3G5) - Background

Facilitates tyrosination of alpha-tubulin in neuronal microtubules (By similarity). Phosphorylated MAP1B may play a role in the cytoskeletal changes that accompany neurite extension. Possibly MAP1B binds to at least two tubulin subunits in the polymer, and this bridging of subunits might be involved in nucleating microtubule polymerization and in stabilizing microtubules. Acts as a positive cofactor in DAPK1-mediated autophagic vesicle formation and membrane blebbing.

## MAP1B Antibody (clone 3G5) - References

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Dergunova L.V.,et al.Biomol. Eng. 20:91-96(2003).  
Schmutz J.,et al.Nature 431:268-274(2004).  
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.  
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