

# MAP2 Monoclonal antibody

Catalog Number: 67015-1-Ig 17 Publications

## Basic Information

<b>Catalog Number:</b> 67015-1-Ig	<b>GenBank Accession Number:</b> BC038857	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1700 µg/ml	<b>GeneID (NCBI):</b> 4133	<b>CloneNo.:</b> 1C3E6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P11137	<b>Recommended Dilutions:</b> IHC 1:1000-1:4000 IF 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Full Name:</b> microtubule-associated protein 2	
<b>Immunogen Catalog Number:</b> AG11349	<b>Calculated MW:</b> 200 kDa	

## Applications

<b>Tested Applications:</b> FC, IF-P, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, IP, WB	<b>IHC :</b> mouse brain tissue, rat cerebellum tissue, rat brain tissue, human brain tissue, mouse cerebellum tissue
<b>Species Specificity:</b> Human, mouse, rat	<b>IF :</b> rat brain tissue, mouse brain tissue
<b>Cited Species:</b> human, rat, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

MAP2 (microtubule-associated protein 2) is a cytoskeleton protein abundant in brain and has important role in neuronal morphogenesis. Multiple high molecular weight (MW) and low molecular weight (MW) MAP2 isoforms are expressed within axons, dendrites, and cell bodies. The expression of MAP2 is regulated in both a tissue- and developmentally specific manner. MAP2 antibodies have been widely used to mark the neuron or dendrite formation.

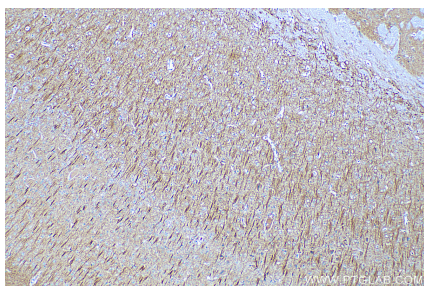
## Notable Publications

Author	Pubmed ID	Journal	Application
Lei-Lei Wang	34582787	Cell	IF
Zihu Tan	34025340	Front Neurosci	IF
Tuancheng Feng	35287730	Acta Neuropathol Commun	IF

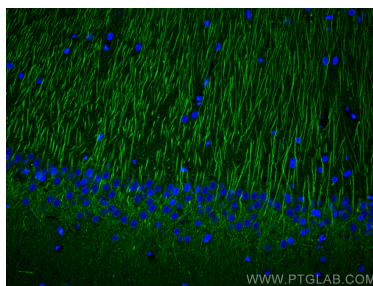
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

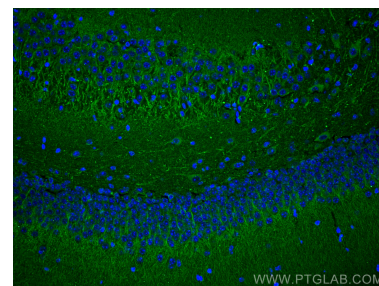
## Selected Validation Data



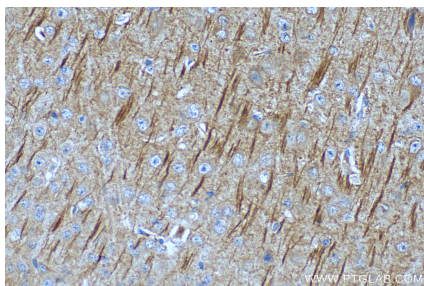
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67015-1-Ig (MAP2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



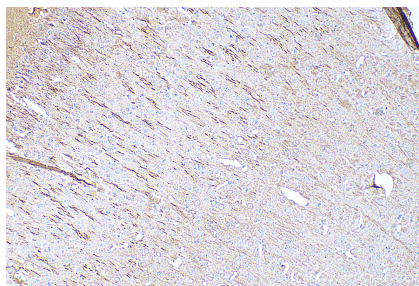
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using MAP2 antibody (67015-1-Ig, Clone: 1C3E6) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



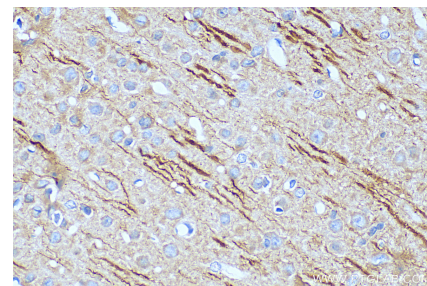
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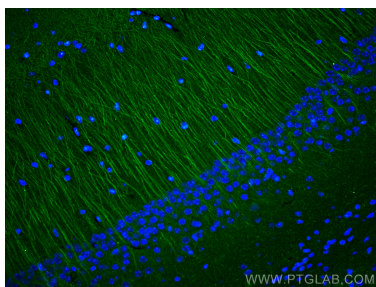
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67015-1-Ig (MAP2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



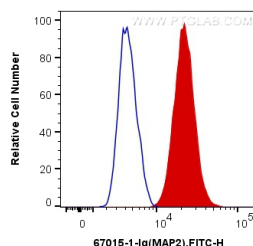
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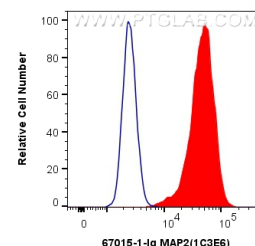
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1X10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.2 ug Anti-Human MAP2 (67015-1-Ig, Clone:1C3E6) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1X10<sup>6</sup> Neuro-2a cells were intracellularly stained with 0.4 ug Anti-Human MAP2 (67015-1-Ig, Clone:1C3E6) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-Ig, Clone: MPC-11) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).