For Research Use Only

MAP2 Monoclonal antibody

Catalog Number:67015-1-Ig 17 Publications

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Basic Information

Catalog Number:
67015-1-Ig

Size:
150ul , Concentration: 1700 μg/ml by Nanodrop and 1000 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG11349

GenBank Accession Number:
BC038857

GeneID (NCBI):
4133

Full Name:
microtubule-associated protein 2

Calculated MW:
200 kDa

Purification Method:
Protein A purification

CloneNo.:
1C3E6

Recommended Dilutions:
IHC 1:1000-1:4000
IF 1:200-1:800

Applications

Tested Applications:
FC, IF, IHC, ELISA

Cited Applications:
IF, IHC, IP, WB

Species Specificity:
Human, mouse, rat

Cited Species:
human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : mouse brain tissue, rat cerebellum tissue, rat brain tissue, human brain tissue, mouse cerebellum tissue

IF : rat brain tissue, mouse brain tissue

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

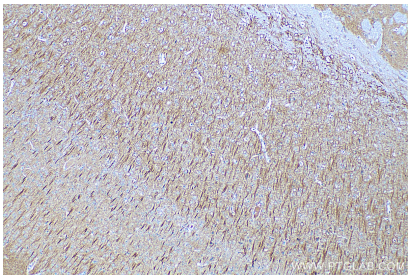
Storage

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

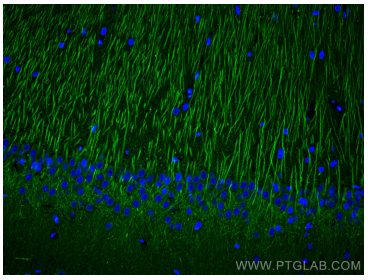
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

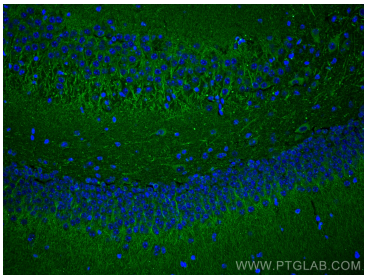
Selected Validation Data



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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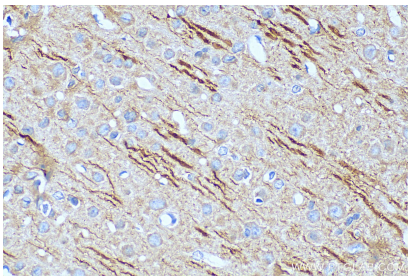
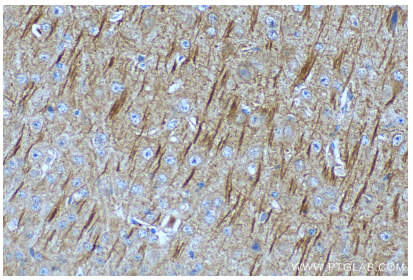
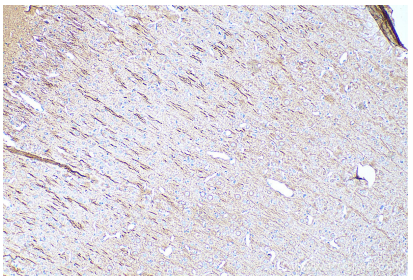


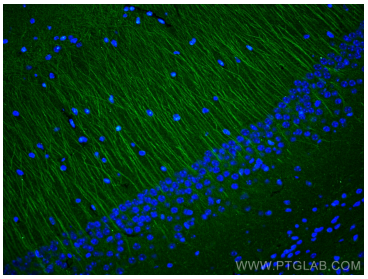
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 67015-1-Ig (MAP2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



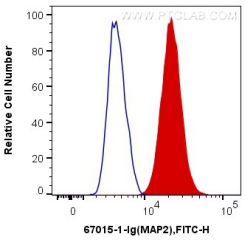
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67015-1-Ig (MAP2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



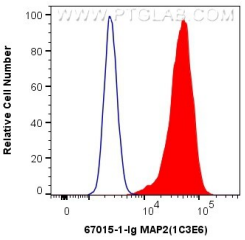
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 67015-1-Ig (MAP2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse 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).



1X10^6 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).



1X10^6 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).