For Research Use Only

MAP2 Monoclonal antibody

Catalog Number:67015-1-Ig 38 Publications

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Basic Information

Catalog Number:
67015-1-Ig

Concentration:
1000 ug/ml

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG11349

GenBank Accession Number:
BC038857

GeneID (NCBI):
4133

UNIPROT ID:
P11137

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-P: 1:200-1:800
IF-Fro: 1:1000-1:4000
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications:
IHC, IF-P, IF-Fro, FC (Intra), ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, monkey

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-P : rat brain tissue, mouse brain tissue

IF-Fro : rat brain tissue, mouse brain tissue

FC (Intra) : Neuro-2a cells,

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

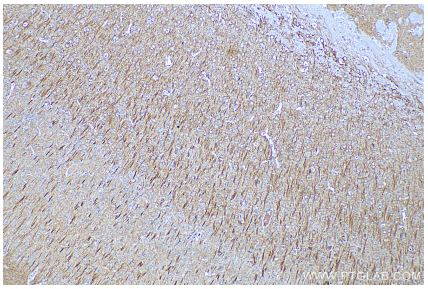
Author	Pubmed ID	Journal	Application
Lei-Lei Wang	34582787	Cell	IF
Zihu Tan	34025340	Front Neurosci	IF
Xin Sun	36254995	Neural Regen Res	IF

Storage

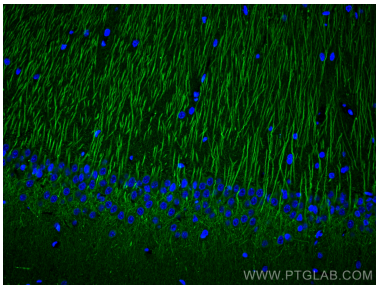
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

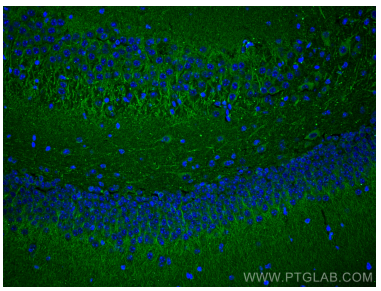
Selected Validation Data



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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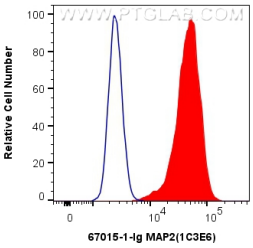
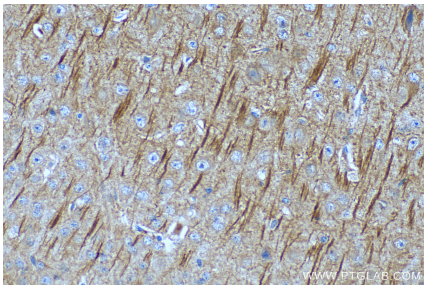
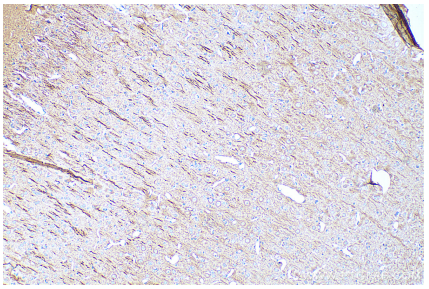


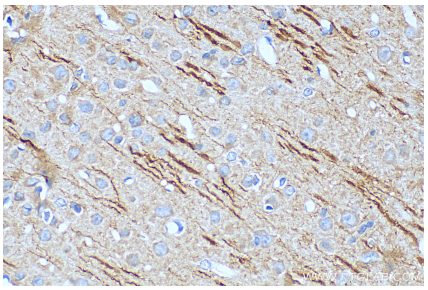
1X10^6 Neuro-2a cells were intracellularly stained with 0.4 ug Anti-Human MAP2 (67015-1-Ig, Clone:1C3E6) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-Ig, Clone: MPC-11) (blue). Cells were fixed with 4%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



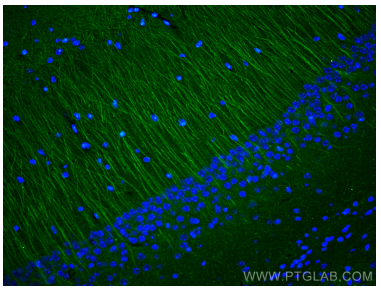
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67015-1-Ig (MAP2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



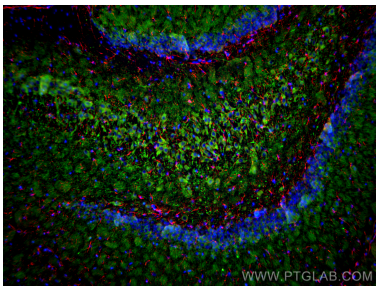
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 67015-1-Ig (MAP2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



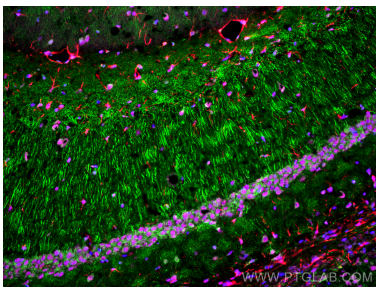
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 67015-1-Ig (MAP2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded rat brain tissue using MAP2 antibody (67015-1-Ig, Clone: 1C3E6) at dilution of 1:2000 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), GFAP antibody (81063-1-RR, Clone: 4C6, red).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using MAP2 antibody (67015-1-Ig, Clone: 1C3E6) at dilution of 1:2000 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CoraLite®594 GFAP antibody (CL594-16825, red), TDP-43 antibody (10782-2-AP, Magenta).