

For Research Use Only

MAP2 Polyclonal antibody, PBS Only

Catalog Number: 17490-1-PBS



Basic Information

Catalog Number: 17490-1-PBS	GenBank Accession Number: BC038857	Purification Method: Antigen affinity purification
Size: 100ug , Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 4133	
Source: Rabbit	UNIPROT ID: P11137	
Isotype: IgG	Full Name: microtubule-associated protein 2	
Immunogen Catalog Number: AG11580	Calculated MW: 200 kDa	
	Observed MW: 280 kDa, 70-85 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, IF-Fro, FC (Intra), IP, ELISA

Species Specificity:
human, mouse, rat

Background Information

MAP2 (microtubule-associated protein 2) is a cytoskeleton protein abundant in the brain and has an important role in neuronal morphogenesis. Multiple high MW and low MW MAP2 isoforms are expressed within the proximal segment of axons, dendrites, and cell bodies. The expression of MAP2 is regulated in both a tissue- and developmentally-specific manner. The 280 kDa MAP2B is present throughout rat brain development, and the slightly larger MAP2A appears first during the end of the second week of postnatal life. MAP2C, composed of several bands of about 70 kDa, is present during early brain development and largely disappears from the mature brain except for the retina, olfactory bulb, and cerebellum. In addition, some isoforms with lower MW around 50-60 kDa also exist. MAP2 antibodies have been widely used to mark the neuron or dendrite formation. This antibody can recognize both high MW and low MW isoforms of MAP2.

Storage

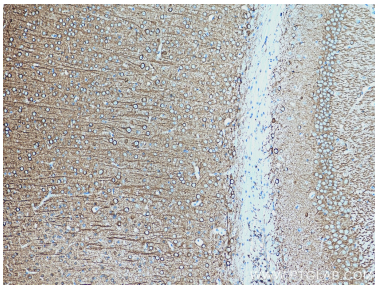
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

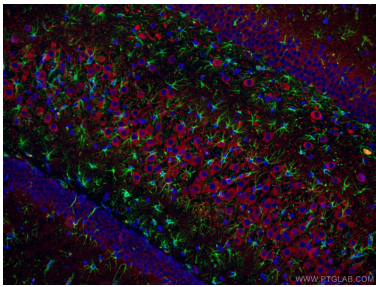
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

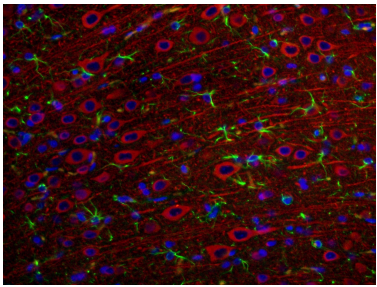
Selected Validation Data



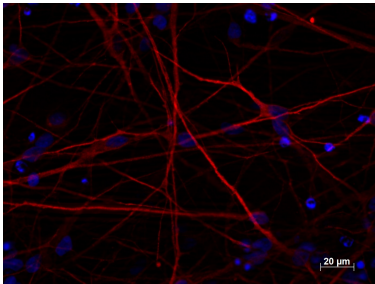
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17490-1-AP (MAP2 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.



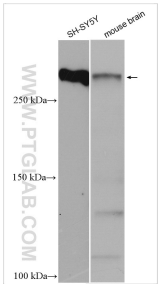
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using 17490-1-AP (MAP2 antibody) at dilution of 1:100 and CoraLite594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). The section was co-stained with 60190-1-Ig (GFAP antibody, green). This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.



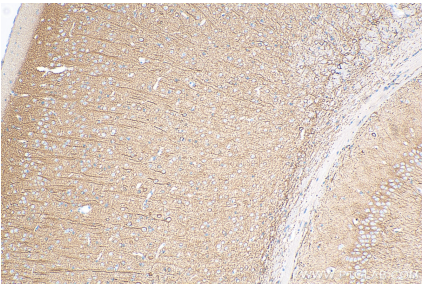
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using 17490-1-AP (MAP2 antibody) at dilution of 1:100 and CoraLite594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). The section was co-stained with 60190-1-Ig (GFAP antibody, green). This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.



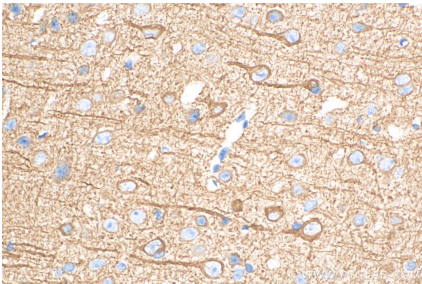
Immunofluorescent staining of MAP2 (17490-1-AP, 1:250 dilution) with 4% PFA fixed control hiPSC derived neuronal cultures (35 days old). (RED MAP2; Blue: DAPI). Provided by BioTalentum Ltd., Hungary. This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 17490-1-AP (MAP2 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.



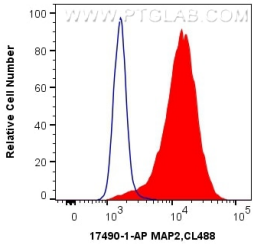
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17490-1-AP (MAP2 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.



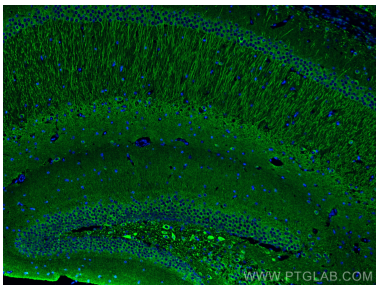
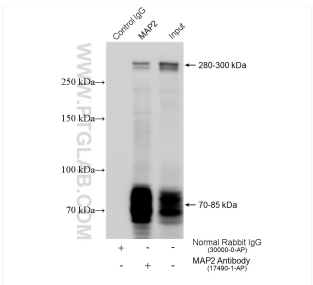
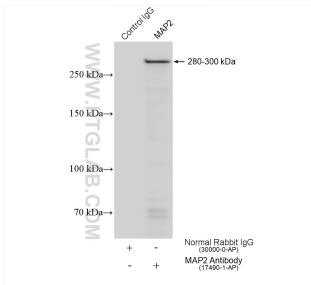
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17490-1-AP (MAP2 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.



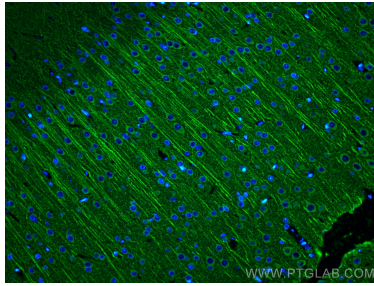
rat brain tissue were subjected to SDS PAGE followed by western blot with 17490-1-AP (MAP2 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.



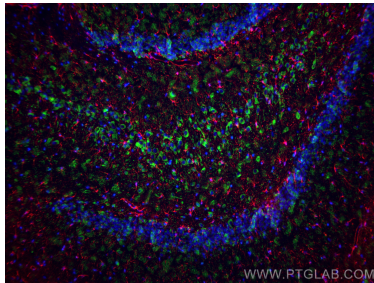
1X10⁶ Neuro-2a cells were intracellularly stained with 0.4 ug Anti-Human MAP2 (17490-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer. This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.



IP result of anti-MAP2 (IP:17490-1-AP, 4ug; Detection:17490-1-AP 1:8000) with mouse brain tissue lysate 1280 ug. This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.

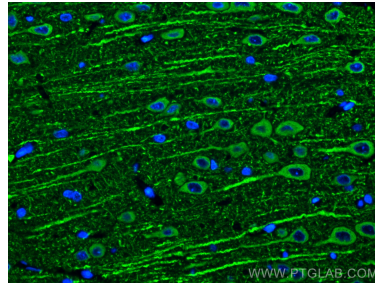


Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using MAP2 antibody (17490-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.



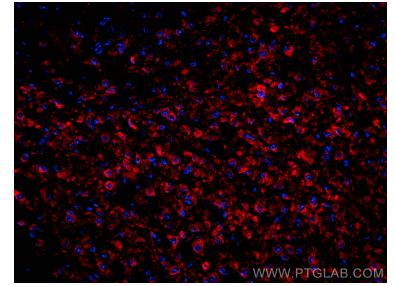
Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded rat brain tissue using MAP2 antibody (17490-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), GFAP antibody (60190-1-Ig, Clone: 4B2E10, red). This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.

IP result of anti-MAP2 (IP:17490-1-AP, 4ug; Detection:17490-1-AP 1:10000) with SH-SY5Y cells lysate 1240 ug. This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using MAP2 antibody (17490-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.

Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using MAP2 antibody (17490-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using MAP2 antibody (17490-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-4). This data was developed using the same antibody clone with 17490-1-PBS in a different storage buffer formulation.