

For Research Use Only

MAP2 Recombinant antibody, PBS Only (Detector)

Catalog Number: 84306-3-PBS



Basic Information

Catalog Number: 84306-3-PBS	GenBank Accession Number: BC038857	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 4133	CloneNo.: 241653E9
Source: Rabbit	UNIPROT ID: P11137	
Isotype: IgG	Full Name: microtubule-associated protein 2	
Immunogen Catalog Number: AG11580	Calculated MW: 200 kDa	
	Observed MW: 280-300 kDa, 70-85 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, IF-Fro, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
human, mouse, rat

Product Information

84306-3-PBS targets MAP2 as part of a matched antibody pair:

MP01208-1: 84306-2-PBS capture and 84306-3-PBS detection (validated in Cytometric bead array)

MP01208-2: 84306-1-PBS capture and 84306-3-PBS detection (validated in Cytometric bead array)

MP01208-3: 84306-5-PBS capture and 84306-3-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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.

Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

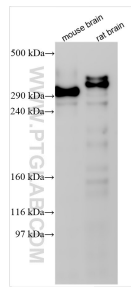
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

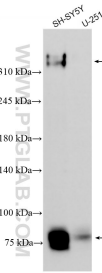
E: proteintech@ptglab.com
W: ptglab.com

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

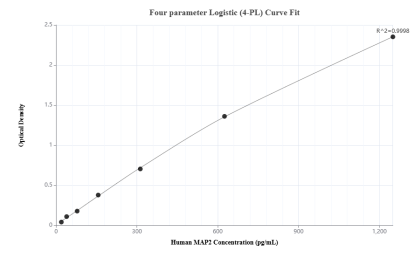
Selected Validation Data



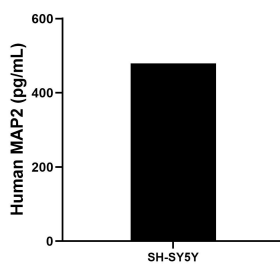
Various lysates were subjected to SDS PAGE followed by western blot with 84306-3-RR (MAP2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84306-3-PBS in a different storage buffer formulation.



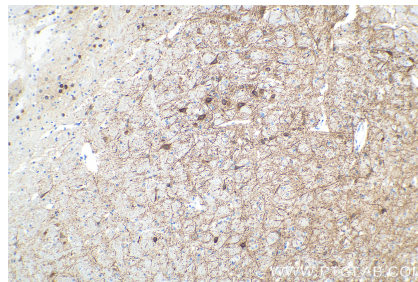
SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 84306-3-RR (MAP2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84306-3-PBS in a different storage buffer formulation.



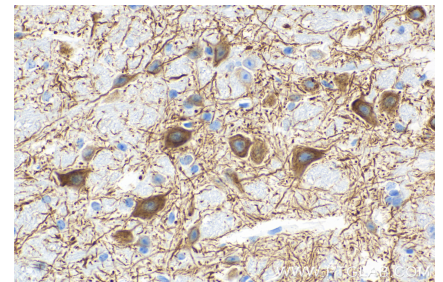
Sandwich ELISA standard curve of MP01208-3, Human MAP2 Recombinant Matched Antibody Pair - PBS only. 84306-5-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag11580. 84306-3-PBS was HRP conjugated as the detection antibody. Range: 19.5-1250 pg/mL



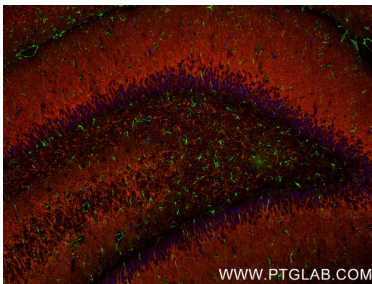
The mean MAP2 concentration was determined to be 479.14 pg/mL in SH-SY5Y cell extract based on a 1.0 mg/mL extract load.



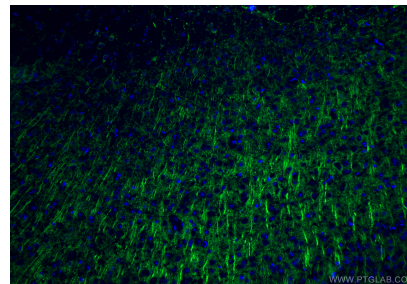
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 84306-3-RR (MAP2 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84306-3-PBS in a different storage buffer formulation.



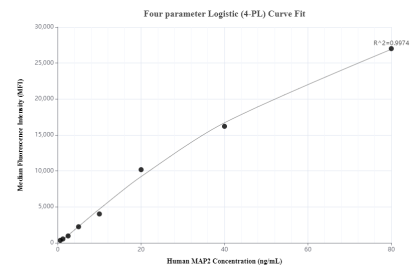
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 84306-3-RR (MAP2 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84306-3-PBS in a different storage buffer formulation.



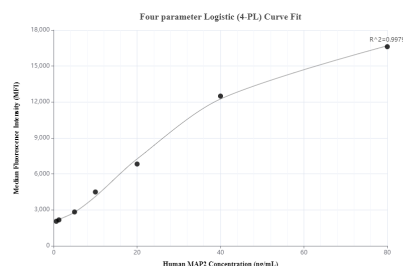
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using GFAP antibody (81063-1-RR, Clone: 4C6, green) at dilution of 1:250 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). MAP2 antibody (84306-3-RR, Clone: 241653E9, red) at dilution of 1:210 and FlexAble CoraLite@ Plus 594 Antibody Labeling Kit for Rabbit IgG(KFA009). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using MAP2 antibody (84306-3-RR, Clone: 241653E9) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84306-3-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01208-1, MAP2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84306-2-PBS. Detection antibody: 84306-3-PBS. Standard: Ag11580. Range: 0.625-80 ng/mL



Cytometric bead array standard curve of MP01208-2, MAP2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84306-1-PBS. Detection antibody: 84306-3-PBS. Standard: Ag11580. Range: 0.625-80 ng/mL