

For Research Use Only

MAP1B Polyclonal antibody

Catalog Number: 21633-1-AP

Featured Product

15 Publications



Basic Information

Catalog Number: 21633-1-AP	GenBank Accession Number: BC141853	Purification Method: Antigen affinity purification
Size: 700 ug/ml	GeneID (NCBI): 4131	Recommended Dilutions: WB 1:500-1:1000 IHC 1:200-1:800 IF-P 1:50-1:500 IF/ICC 1:10-1:100
Source: Rabbit	UNIPROT ID: P46821	
Isotype: IgG	Full Name: microtubule-associated protein 1B	
Immunogen Catalog Number: AG16255	Calculated MW: 2468 aa, 271 kDa	
	Observed MW: 320 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, FC (Intra), ELISA	Positive Controls: WB : mouse cerebellum tissue, human brain tissue IHC : mouse brain tissue, mouse cerebellum tissue IF-P : mouse brain tissue, IF/ICC : SH-SY5Y cells,
Cited Applications: WB, IHC, IF	
Species Specificity: human, mouse	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Microtubule-associated protein 1B (MAP1B) is a cytoskeleton protein which can promote microtubule assembly. Previous reports have suggested that this protein is closely involved in neuronal development based on its extensive expression in the developing brain and moderate in mature neurons. Gene disruption or knockout studies of the MAP1B gene led to a delayed development of the nervous system in mice. It includes the N-terminal heavy chain and a C-terminal light chain. The MAP1B heavy chain has a microtubule-stabilization effect, and contains an actin-binding site that may play a role in the crosslinking of actin and microtubules, a function that may be important in neurite elongation. Various isoforms around 300-350 kDa of MAP1B can be observed due to the differences in phosphorylation state. (10704485)

Notable Publications

Author	Pubmed ID	Journal	Application
Jing-Yi Long	32927026	Neurochem Int	WB,IF
Monica C Lannom	34847178	PLoS One	WB
Junyu Wu	27715397	Cell Cycle	WB

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

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

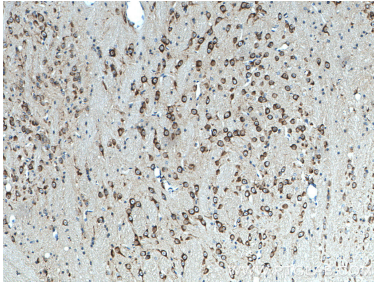
T: 4006900926

E: Proteintech-CN@ptglab.com

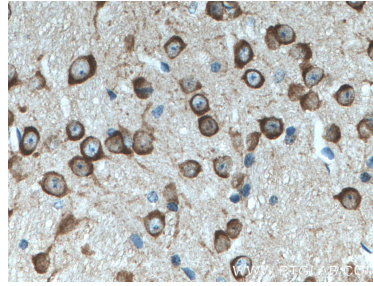
W: ptgcn.com

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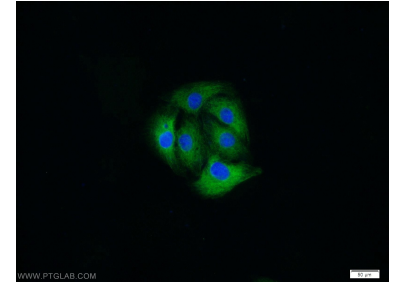
Selected Validation Data



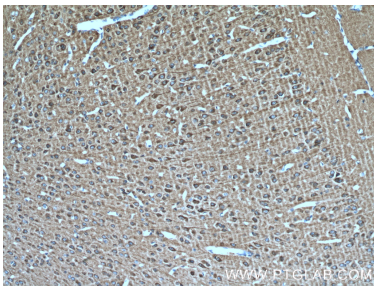
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21633-1-AP (MAP1B antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



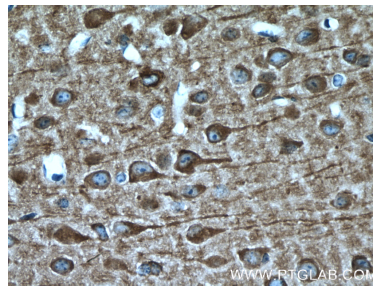
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21633-1-AP (MAP1B antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



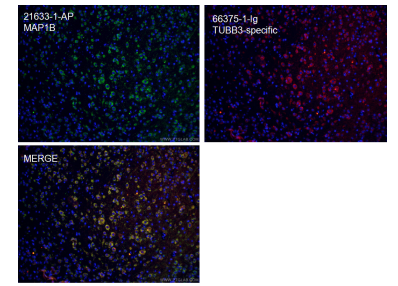
Immunofluorescent analysis of SH-SY5Y cells using 21633-1-AP (MAP1B antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21633-1-AP (MAP1B antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



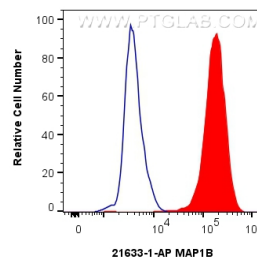
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21633-1-AP (MAP1B antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 21633-1-AP (MAP1B antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



mouse cerebellum tissue were subjected to SDS PAGE followed by western blot with 21633-1-AP (MAP1B antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



1×10^6 SH-SY5Y cells were intracellularly stained with 0.4 μ g MAP1B Polyclonal antibody (21633-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 μ g Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).