

MAP2 Antibody

Mouse Monoclonal Antibody [Clone MAP2/7673]

Catalog No	Format	Size
4133-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4133-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4133-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

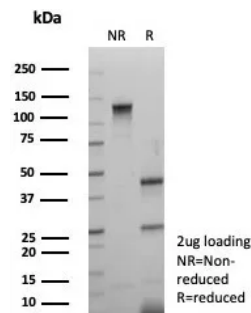
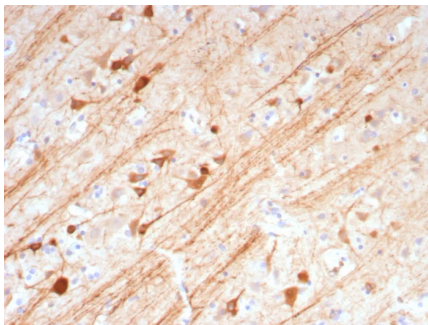
Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

Clone	MAP2/7673
Gene Name	MAP2
Immunogen	Recombinant fragment (around aa1500-1700) of human MAP2 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	280/70kDa
Cellular Localization	Cytoplasm. Cytoskeleton.
Species Reactivity	Human
Positive Control	Human brain.

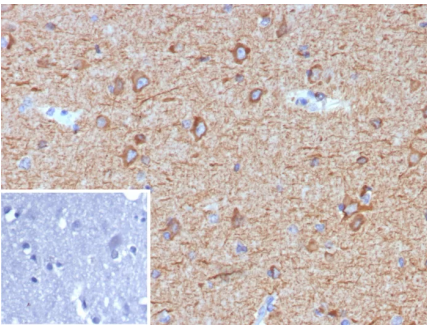
*Optimal dilution for a specific application should be determined.

Product Images for MAP2 Antibody



Formalin-fixed, paraffin-embedded human brain stained with MAP2 Mouse Monoclonal Antibody (MAP2/7673). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

SDS-PAGE Analysis of Purified MAP2 Mouse Monoclonal Antibody (MAP2/7673). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human brain stained with MAP2 Mouse Monoclonal Antibody (MAP2/7673). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Microtubules, the primary component of the cytoskeletal network, interact with proteins called microtubule-associated proteins (MAPs). The microtubule-associated proteins can be divided into two groups, structural and dynamic. The structural microtubule-associated proteins, MAP-1A, MAP-1B, MAP-2A, MAP-2B and MAP-2C, stimulate tubulin assembly, enhance microtubule stability and influence the spatial distribution of microtubules within cells. Both MAP-1 and, to a greater extent, MAP-2 have been implicated as agents of microtubule depolymerization by suppressing the dynamic instability of the microtubules. The suppression of microtubule dynamic instability by the MAP proteins is thought to be associated with phosphorylation of the MAPs.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Neural Stem Cells, Neuroscience
