

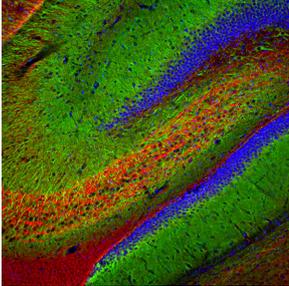
Anti-MAP2 Antibody [5H11] (A85296)

Specifications:

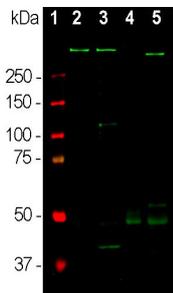
Name:	Anti-MAP2 Antibody [5H11]
Description:	Mouse monoclonal (5H11) antibody to MAP2.
Specificity:	The epitope for this antibody was mapped to the projection domain 3, amino acids 1057-1588, of the human sequence.
Applications:	WB, ICC/IF, IHC
Recommended Dilutions:	WB: 1:10,000, ICC/IF: 1:1,000, IHC: 1:1,000
Reactivity:	Human, Rat, Mouse
Immunogen:	Native full-length purified bovine MAP2.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	5H11
Isotype:	IgG2b
Conjugate:	Unconjugated
Purification:	Immunogen affinity purification.
Concentration:	1 mg/ml
Molecular Weight:	~280 kDa (by SDS-PAGE)
Product Form:	Liquid
Formulation:	Supplied in Phosphate Buffered Saline with 50% Glycerol and 5mM Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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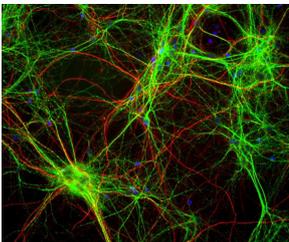
Images:



Immunofluorescent analysis of rat hippocampus section stained with Anti-MAP2 Antibody (1:5,000 | green) and Anti-a-Internexin Antibody (A85441 | 1:2,000 | red). Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 μ M, and free-floating sections were stained with above antibodies. The Anti-MAP2 Antibody labels MAP2 protein in the perikarya and dendrites of the most neurons, and the Anti-a-Internexin Antibody selectively stains axons and dendrites of neuronal cells.



Western blot analysis of different tissue lysates using Anti-MAP2 Antibody (1:10,000 | green): [1] protein standard (red), [2] adult rat whole brain, [3] embryonic (E20) rat brain, [4] adult rat spinal cord, and [5] adult mouse brain lysate. A band at about 280 kDa corresponds to full length MAP2a and MAP2B protein. MAP2A/B is expressed heavily in brain particularly in cortical regions, but is a more minor component of spinal cord. Note that the epitope for this antibody is within the "projection domain", and so the antibody does not bind to the lower molecular weight MAP2C and MAP2D isoforms which lack this region.



Mixed neuron/glia cultures stained with Anti-MAP2 Antibody (green) and Anti-NF-H Antibody (A85336 | red). Since the NF-H protein is largely expressed in neuronal axons, while the MAP2 is only found in neuronal dendrites and perikarya, there is little overlap between these two staining patterns. DNA stain shows nuclei of neurons and non-neuronal cells (blue).



Western blot of whole rat brain lysate probed with Anti-MAP2 Antibody. Note that the strong single band running at about 280Kda corresponds to MAP2.