

34-1066: Monoclonal Antibody to Microtubule Associated Protein 2, MAP2A/B (Clone: 5H11)

Clonality :	Monoclonal
Clone Name :	5H11
Application :	WB
Reactivity :	Human
Gene :	MAP2
Gene ID :	4133
Uniprot ID :	P11137
Format :	Purified
Isotype :	Mouse, IgG1
Immunogen Information :	Full length purified bovine protein. Epitope maps to 1057-1507 of the human sequence.

Product Info

Amount :	50 µl / 100 µl
Content :	Antibody is supplied as an aliquot of 1 mg/ml of affinity purified antibody.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:10,000. IF/ICC and IHC: 1:1,000.

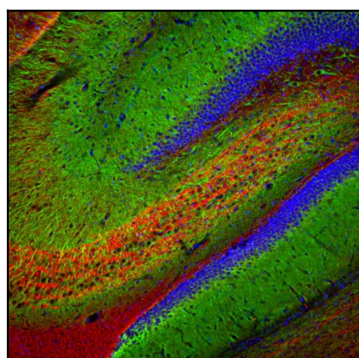


Figure-1: Immunofluorescent analysis of rat hippocampus section stained with mouse mAb to MAP2,(34-1066), dilution 1:5,000 in green, and costained with rabbit pAb to ̢-interneixin,(34-1055), dilution 1:2,000 in red. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µm, and free-floating sections were stained with above antibodies. The (34-1066) antibody labels MAP2 protein in the perikarya and dendrites of the most neurons, and the ̢-interneixin antibody selectively stains axons and dendrites of neuronal cells.

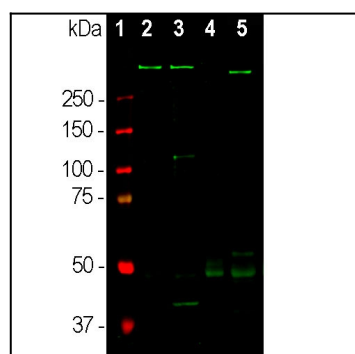


Figure-2: Western blot analysis of different tissue lysates using mouse mAb to MAP2A/B,(34-1066), dilution 1:10,000 in green: [1] protein standard (red), [2] adult rat whole brain, [3] embryonic (E20) rat brain, [4] adult rat spinal cord, and [5] adult mouse brain lysate. A band at about 280 kDa corresponds to full length MAP2a and MAP2B protein. MAP2A/B is expressed heavily in adult brain particularly in cortical regions, but is a more minor component of spinal cord and almost absent from the embryonic brain sample. Note that since the epitope for this antibody is within the projection domain found only in MAP2A and MAP2B, and so the antibody does not bind to the lower molecular weight MAP2C and MAP2D isoforms which lack this region.