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34-1068: Monoclonal Antibody to Microtubule Associated Protein t, MAPT(Clone: 2E9)

Clonality :	Monoclonal
Clone Name :	2E9
Application :	WB, IF/ICC, IHC
Reactivity :	Human, Rat, Mouse, Cow, Pig, Horse
Gene :	MAPT
Gene ID :	4137
Uniprot ID :	P10636
Format :	Purified
Alternative Name :	Neurofibrillary tangle protein,PHF-tau,Paired helical filament-tau
Isotype :	Mouse, IgG1
Immunogen Information :	Recombinant full length version of the shortest human Tau isoform purified from E. coli.

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.

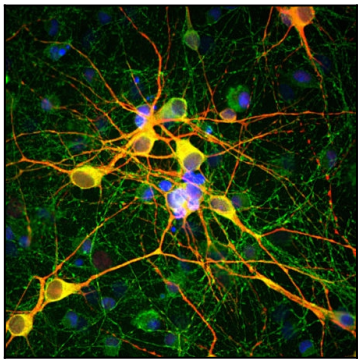

Figure-1: Immunofluorescent analysis of cortical neuron-glial culture from E20 rat stained with mouse mAb to MAP-Ï„, (34-1068), dilution 1:1,000 in green, and costained with chicken pAb to MAP2,(34-1064), dilution 1:5,000 in red. The blue is DAPI staining of nuclear DNA. (34-1068) antibody stains perikarya, dendrites and axons of neurons, while MAP2 antibody labels only dendrites and perikarya. As a result, perikarya and dendrites appear orange-yellow, since they contain both proteins.

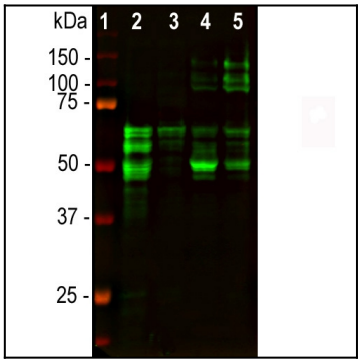

Figure-2: Western blot analysis of different tissue lysates using mouse mAb to MAP-Ï„,(34-1068), dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. Tau protein is expressed as up to 9 different isoforms of different molecular weight, and so appears as multiple closely spaced bands in the range from 48 kDa to 67 kDa in the CNS and including larger â€œbig tauâ€ forms in the PNS, visible in lane 5.