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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.

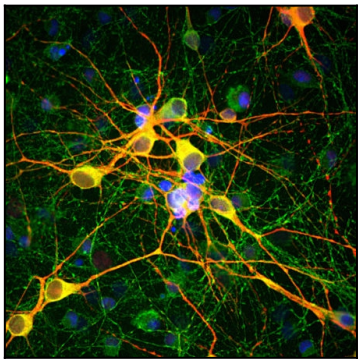

Figure-1: Immunofluorescent analysis of cortical neuron-glial culture from E20 rat stained with mouse mAb to MAP-τ, (34-1068), dilution 1:1,000 in green, and costained with chicken pAb to MAP2,(34-1064), dilution 1:5,000 in red. The blue is DAPI staining of nuclear DNA. (34-1068) antibody stains perikarya, 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.

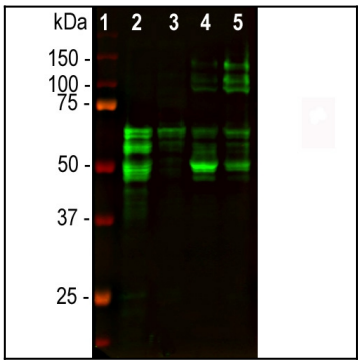

Figure-2: Western blot analysis of different tissue lysates using mouse mAb to MAP-τ,(34-1068), dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. Tau protein is expressed as up to 9 different isoforms of different molecular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

For Research Use Only. Not for use in diagnostic/therapeutics procedures.