

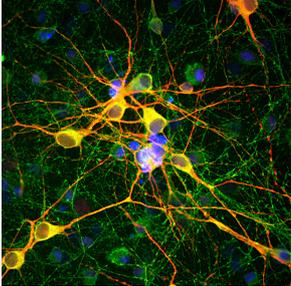
## Anti-Tau Antibody [2E9] (A85416)

### Specifications:

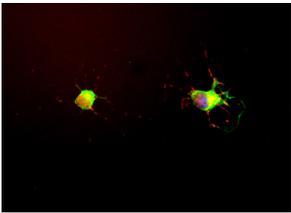
Name:	Anti-Tau Antibody [2E9]
Description:	Mouse monoclonal (2E9) antibody to Tau.
Specificity:	The epitope for this antibody is located in the peptide KDRVQSKIGSLDNITHVPGG, amino acids 347-366 of human Tau (NP_005901.2). This sequence is expressed in all known human Tau isotypes and is totally conserved in all mammals.
Applications:	WB, ICC/IF, IHC
Recommended Dilutions:	WB: 1:10,000, ICC/IF: 1:1,000, IHC: 1:1,000
Reactivity:	Human, Horse, Cow, Porcine, Rat, Mouse
Immunogen:	Recombinant full-length version of one of the lower molecular weight human Tau isoforms, specifically the human 441 amino acid htau40 form described by Goedert et al., expressed in and purified from E. coli.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	2E9
Isotype:	IgG1
Conjugate:	Unconjugated
Purification:	Immunogen affinity purification.
Concentration:	1 mg/ml
Molecular Weight:	48-67 kDa, with higher molecular weight "big tau" isoforms mostly in peripheral tissues.
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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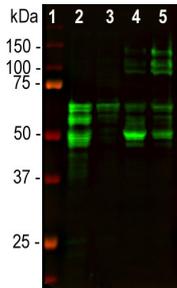
### Images:



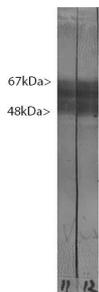
Immunofluorescent analysis of cortical neuron-glia culture from E20 rat stained with Anti-Tau Antibody (1:1,000 | green) and Anti-MAP2 Antibody (A85363 | 1:5,000 | red). The blue is DAPI staining of nuclear DNA. Anti-Tau Antibody stains perikarya, dendrites and axons of neurons, while Anti-MAP2 Antibody labels only dendrites and perikarya. As a result, perikarya and dendrites appear orange-yellow, since they contain both proteins.



We obtained E18 hippocampal neurons and grew them for seven days. We fixed and immunostained with Anti-Tau Antibody (green), Anti-Alpha-Internexin Antibody (A85446 | red) and for DNA (blue). Anti-Tau Antibody stains the neuronal perikarya and process strongly, and does not stain non-neuronal cells in these cultures. The Anti-Alpha-Internexin Antibody stains intermediate or 10nm filament bundles in the cytoplasm of these cells.



Western blot analysis of different tissue lysates using Anti-Tau Antibody (1:2,000 | 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.



Blots of crude rat brain extract stained with Anti-Tau Antibody, revealing, as expected, multiple bands in the range 48-67kDa.