

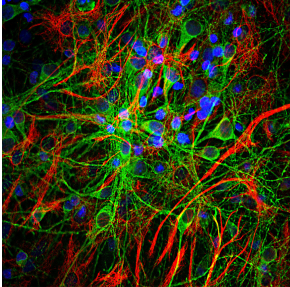
Anti-Tau Antibody [5B10] (A85415)

Specifications:

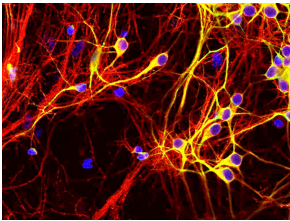
Name:	Anti-Tau Antibody [5B10]
Description:	Mouse monoclonal (5B10) antibody to Tau.
Specificity:	The epitope for this antibody is located in the peptide HVPGGGNKKIETHKLFREN, amino acids 362-381 of human Tau (NP_005901.2). This sequence is expressed in all known human Tau isotypes and is totally conserved in all mammals and other higher vertebrates.
Applications:	WB, ICC/IF
Recommended Dilutions:	WB: 1:10,000, ICC/IF: 1:1,000, IHC: 1:1,000
Reactivity:	Human, 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:	5B10
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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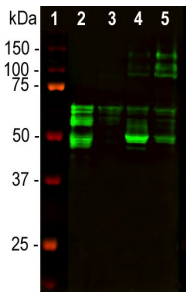
Images:



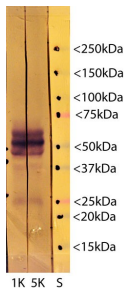
Immunofluorescent analysis of cortical neuron-glia culture from E20 rat stained with Anti-Tau Antibody (1:2,000 | green) and Anti-GFAP Antibody (A85307 | 1:5,000 | red). The blue is DAPI staining of nuclear DNA. Anti-Tau Antibody stains perikarya, dendrites and axons of neurons, while the Anti-GFAP Antibody labels astrocytes.



E18 rat brain cultures were grown for 10 days, fixed and immunostained with Anti-Tau Antibody (red), Anti-MAP2 Antibody (A85363 | green) and for DNA (blue). Anti-Tau Antibody stains the neuronal perikarya, dendrites and axonal process strongly and does not stain non-neuronal cells in these cultures. The Anti-MAP2 Antibody also stains neurons only, but only the perikarya and dendrites. As a result perikarya and dendrites appears yellow, since they contain both tau and MAP2, while axons appear red as they contain only tau.



Western blot analysis of 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 region of the blot from 48 kDa to 67 kDa with some higher molecular weight "big tau" Isoforms.



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