

# Product Datasheet

## Tau Antibody (5B10) - BSA Free NBP2-50051

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 1

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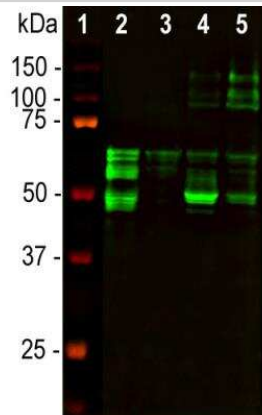
**NBP2-50051**

Tau Antibody (5B10) - BSA Free

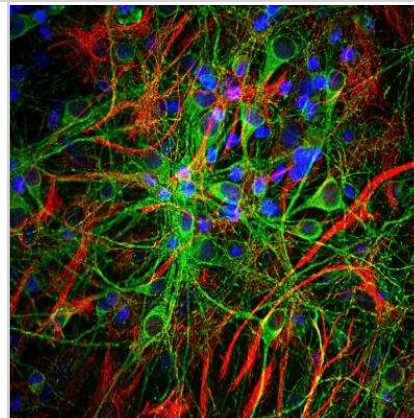
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	5B10
<b>Preservative</b>	5mM Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	50% PBS, 50% glycerol
<b>Target Molecular Weight</b>	48-67 kDa
Product Description	
<b>Description</b>	Novus Biologicals Mouse Tau Antibody (5B10) - BSA Free (NBP2-50051) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Tau Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	4137
<b>Gene Symbol</b>	MAPT
<b>Species</b>	Human, Mouse, Rat
<b>Specificity/Sensitivity</b>	This antibody is expected to bind to all Tau isoforms.
<b>Immunogen</b>	Recombinant full length 441 amino acid version of the shortest human tau isoform. Epitope located in the peptide HVPGGGNKKIETHKLFREN, amino acids 362-381. [UniProt# P10636]
Product Application Details	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:10000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000
<b>Application Notes</b>	In Western blot, multiple bands can be seen in the range of 48-67 kDa. Higher molecular weight "big tau" isoforms mostly in peripheral tissues.

## Images

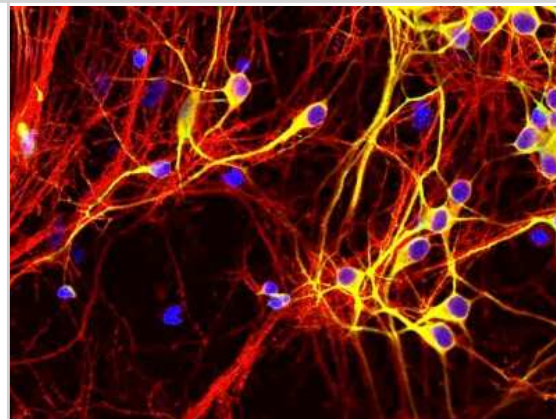
Western Blot: Tau Antibody (5B10) [NBP2-50051] - Analysis of tissue lysates using mouse mAb to MAP-tau, NBP2-50051, dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. Tau protein is expressed as up to 9 different isoforms of different molecular weight, and so appears as multiple closely spaced bands in the region of the blot from 48 kDa to 67 kDa with some higher molecular weight big tau Isoforms.



Immunocytochemistry/Immunofluorescence: Tau Antibody (5B10) [NBP2-50051] - Analysis of cortical neuron-glia culture from E20 rat stained with mouse mAb to MAP-tau, NBP2-50051, dilution 1:2,000 in green, and costained with chicken pAb to GFAP, dilution 1:5,000 in red. The blue is DAPI staining of nuclear DNA. NBP2-50051 stains perikarya, dendrites and axons of neurons, while the GFAP antibody labels astrocytes.



Immunocytochemistry/Immunofluorescence: Tau Antibody (5B10) [NBP2-50051] - E18 rat brain cultures were grown for 10 days, fixed and immunostained with NBP2-50051 in red and chicken antibody to MAP2 (NB300-213, green) and for DNA (blue). NBP2-50051 stains the neuronal perikarya, dendrites and axonal process strongly and does not stain non neuronal cells in these cultures. The 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.



## Publications

Ibarra IL, Ratnu VS, Gordillo L et al. Comparative chromatin accessibility upon BDNF stimulation delineates neuronal regulatory elements *Molecular systems biology* 2022-08-01 [PMID: 35996956] (ICC/IF, Mouse)

Details:  
Appendix Figure S12



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### **Products Related to NBP2-50051**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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