

# Product Datasheet

## Tau Antibody (2E9) - BSA Free NBP2-25162

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: 5

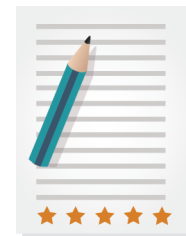
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**NBP2-25162**

Tau Antibody (2E9) - 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>	2E9
<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

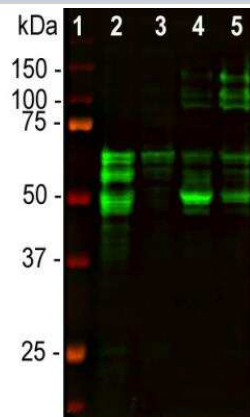
Product Description	
<b>Description</b>	Novus Biologicals Mouse Tau Antibody (2E9) - BSA Free (NBP2-25162) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Tau Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	4137
<b>Gene Symbol</b>	MAPT
<b>Species</b>	Human, Mouse, Rat, Porcine, Bovine, Equine
<b>Marker</b>	pan-Neuronal Marker
<b>Specificity/Sensitivity</b>	This antibody is expected to bind to all Tau isoforms
<b>Immunogen</b>	Recombinant full length 441 amino acid human tau. Epitope located in the peptide KDRVQSKIGSLDNITHVPGG, amino acids 347-366.

Product Application Details	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Proximity Ligation Assay
<b>Recommended Dilutions</b>	Western Blot 1:10000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000, Proximity Ligation Assay
<b>Application Notes</b>	Use in PLA reported in scientific literature (PMID:35264729) Optimal dilution of this antibody should be experimentally determined..



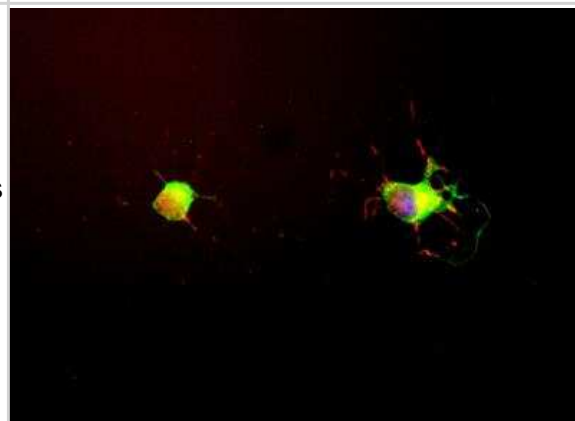
## Images

Western Blot: Tau Antibody (2E9) [NBP2-25162] - Analysis of different tissue lysates using mouse mAb to MAP-tau, NBP2-25162, 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.



Immunocytochemistry/Immunofluorescence: Tau Antibody (2E9) [NBP2-25162] - Analysis of cortical neuron-glia culture from E20 rat stained with mouse mAb to MAP-tau, NBP2-25162, dilution 1:1,000 in green, and costained with chicken pAb to MAP2, dilution 1:5,000 in red. The blue is DAPI staining of nuclear DNA. NBP2-25162 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.

Immunocytochemistry/Immunofluorescence: Tau Antibody (2E9) [NBP2-25162] - E18 primary rat hippocampal neurons (from Neuromics) were fixed and immunostained with NBP2-25162 (green), chicken antibody to alpha Internexin (NBP1-05208, red) and for DNA (blue). NBP2-25162 stains the neuronal perikarya and processes strongly, and does not stain non neuronal cells in these cultures. The alpha Internexin antibody stains intermediate or 10nm filament bundles in the cytoplasm of these cells.



## Publications

Mody PH, Marvin KN, Hynds DL, Hanson LK Cytomegalovirus infection induces Alzheimer's disease-associated alterations in tau *Journal of neurovirology* 2023-07-12 [PMID: 37436577]

Matchett BJ, Lincoln SJ, Baker M et al. The SERPINA5 coding variant E228Q does not contribute to clinicopathologic characteristics in Alzheimer's disease: A cross-sectional study *Medicine* 2023-06-16 [PMID: 37327267] (IHC, Human)

Huang CN, Lin CL, Li HH et al. Abelmoschus esculentus (Okra) Prevents Insulin Resistance and Restores Neuron Autophagy by Regulating Dipeptidyl Peptidase-4 and Thus Improving Hippocampal Function *Journal of medicinal food* 2023-06-26 [PMID: 37358589]

Pandya NJ, Meier S, Tyanova S Et al. A cross-species spatiotemporal proteomic analysis identifies UBE3A-dependent signaling pathways and targets *Mol Psychiatry* 2022-03-10 [PMID: 35264729] (PLA, Human)

### Details:

Citation using the Alexa Fluor 647 version of this antibody.

EI-Nashar HAS, Abbas H, Zewail M et al. Neuroprotective Effect of Artichoke-Based Nanoformulation in Sporadic Alzheimer's Disease Mouse Model: Focus on Antioxidant, Anti-Inflammatory, and Amyloidogenic Pathways *Pharmaceuticals (Basel, Switzerland)* 2022-09-28 [PMID: 36297313]





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### **Products Related to NBP2-25162**

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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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

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