

**bsm-52310R****[ Primary Antibody ]****BioSS**  
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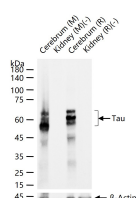
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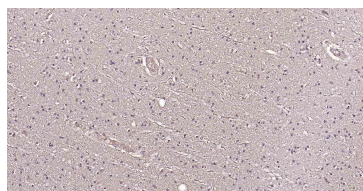
400-901-9800

**Tau Recombinant Rabbit mAb****DATASHEET**

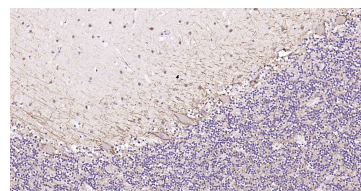
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000) <b>IHC-P</b> (1:50-200) <b>IHC-F</b> (1:50-200) <b>IF</b> (1:50-200)  <b>Reactivity:</b> Human, Mouse, Rat  <b>Predicted MW.:</b> 52 kDa  <b>Subcellular Location:</b> Cell membrane ,Cytoplasm
<b>Clonality:</b> Recombinant	<b>CloneNo.:</b> 1G4	
<b>GeneID:</b> 4137	<b>SWISS:</b> P10636	
<b>Target:</b> Tau		
<b>Immunogen:</b> A synthesized peptide derived from human Tau: 700-740.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
<b>Background:</b> Tau proteins are important Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity. The C-terminus binds axonal microtubules while the N-terminus binds neural plasma membrane components, suggesting that tau functions as a linker protein between both. Axonal polarity is predetermined by tau localization (in the neuronal cell) in the domain of the cell body defined by the centrosome. The short isoforms allow plasticity of the cytoskeleton whereas the longer isoforms may preferentially play a role in its stabilization. Tau proteins subcellular located in the axons of neurons, in the cytosol and in association with plasma membrane components. It expressed in neurons. PNS-tau is expressed in the peripheral nervous system while the others are expressed in the central nervous system.		

**VALIDATION IMAGES**

25 ug total protein per lane of various lysates (see on figure) probed with Tau monoclonal antibody, unconjugated (bsm-52310R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Left Parietal Lobe; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Tau Monoclonal Antibody, Unconjugated (bsm-52310R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Tau Monoclonal Antibody, Unconjugated (bsm-52310R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

**SELECTED CITATIONS**

- **[IF=9.995]** Qian Fang. et al. YTHDF1 phase separation triggers the fate transition of spermatogonial stem cells by activating the IκB-NF-κB-CCND1 axis. CELL REP. 2023 Apr 14;42(4):112403 IF ;Mouse. 37060562
- **[IF=7.129]** Yanwen Hou. et al. Prenatal PM2.5 exposure contributes to neuronal tau lesion in male offspring mice through mitochondrial dysfunction-mediated insulin resistance. ECOTOX ENVIRON SAFE. 2022 Nov;246:114151 WB ;Mouse. 36228359
- **[IF=5.682]** Ya-Jen Chiu. et al. Formulated Chinese medicine Shaoyao Gancao Tang reduces NLRP1 and NLRP3 in

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- Alzheimer's disease cell and mouse models for neuroprotection and cognitive improvement. Aging-Us. 2021 Jun 15; 13(11): 15620–15637 IHC ;Mouse. 34106880
- **[IF=4.9]** Layal Abou Assi. et al. Uncovering the Therapeutic Potential of Lithium Chloride in Type 2 Diabetic Cardiomyopathy: Targeting Tau Hyperphosphorylation and TGF- $\beta$  Signaling via GSK-3 $\beta$  Inhibition. PHARMACEUTICS. 2024 Jul;16(7):955 WB ;Rat. 39065652
  - **[IF=4.8]** Nishida Namiko. et al. Lipocalin-type prostaglandin D synthase: a glymphopathy marker in idiopathic hydrocephalus. FRONT AGING NEUROSCI. 2024 Apr;16: WB ;Human. 38638193