bs-2368R **[Primary Antibody]**

phospho-Tau (Thr231) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4137 **SWISS:** P10636

Target: Tau (Thr231)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human Tau around the phosphorylation site of Thr231: VR(p-T)PP.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 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.

Background: 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 cytoso l 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.

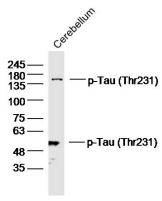
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Cow, Dog, Horse)

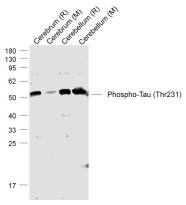
Predicted MW.: 52/79 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



(mouse/tissue)Cerebellum lysates probed with p-Tau(Thr231) Polyclonal Antibody, Unconjugated (Catalog #bs-2638R) at 1:300 overnight at 4˚C. Followed by a conjugated secondary antibody (Secondary Catalog #926-32211) at 1:10000 for 60 min at 37˚C.



Sample: Cerebrum (Rat) Lysate at 40 ug Cerebrum (Mouse) Lysate at 40 ug Cerebellum (Rat) Lysate at 40 ug Cerebellum (Mouse) Lysate at 40 ug Primary: Anti-phospho-Tau (Thr231) (bs-2368R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52/79 kD Observed band size: 52 kD

SELECTED CITATIONS

- **[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=5.988]** Zhao Wenbin. et al. Rhizoma Gastrodiae Water Extract Modulates the Gut Microbiota and Pathological Changes of P-TauThr231 to Protect Against Cognitive Impairment in Mice. FRONT PHARMACOL. 2022 Jul;0:2499 WB,IHC

;Mouse. 35910384

- **[IF=3.5]** Lei Li. et al. The Improvement Effects of Sika Deer Antler Protein in an Alzheimer's Disease Mouse Model via the Microbe–Gut–Brain Axis. FOOD SCI NUTR. 2024 Dec;13(1):e4656 IHC ;Mouse. 39803278
- **[IF=2.65]** Cai, Zhiyou, Yong Yan, and Yonglong Wang. "Minocycline alleviates beta-amyloid protein and tau pathology via restraining neuroinflammation induced by diabetic metabolic disorder." Clinical Interventions in Aging 8 (2013): 1089-1095. WB ;="Rat". 23983461
- **[IF=2.666]** X Zhou et al. Modulating NMDA receptors to treat MK-801-induced schizophrenic cognition deficit: effects of clozapine combining with PQQ treatment and possible mechanisms of action. BMC Psychiatry. 2020 Mar 6;20(1):106. WB ;rat. 32143671