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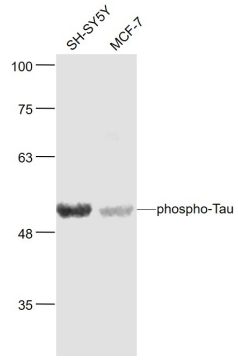
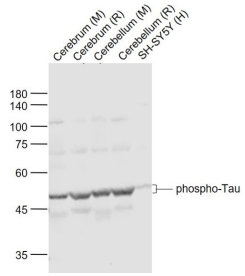
phospho-Tau (Ser404) Rabbit pAb

Catalog Number:	bs-2392R
Target Protein:	phospho-Tau (Ser404)
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), ICC/IF (1:100)
Reactivity:	Human, Mouse, Rat (predicted:Rabbit, Cow, Dog, Horse)
Predicted MW:	52/79 kDa
Entrez Gene:	4137
Swiss Prot:	P10636
Source:	KLH conjugated Synthesised phosphopeptide derived from human Tau around the phosphorylation site of Ser404: IG(p-S)TE.
Purification:	affinity purified by Protein A
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.

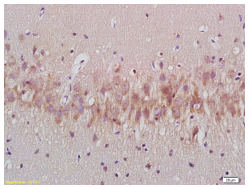
VALIDATION IMAGES



Sample: SH-SY5Y (Human) Cell Lysate at 30 ug MCF-7 (Human) Cell Lysate at 30 ug Primary: Anti- phospho-Tau (bs-2392R) 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



Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Cerebrum (Rat) Lysate at 40 ug Lane 3: Cerebellum (Mouse) Lysate at 40 ug Lane 4: Cerebellum (Rat) Lysate at 40 ug Lane 5: SH-SY5Y (Human) Cell Lysate at 30 ug Primary: Anti-phospho-Tau (Ser404) (bs-2392R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50-70 kD Observed band size: 50 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-phospho-Tau protein(Ser404) Polyclonal Antibody, Unconjugated(bs-2392R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.5] Haitao Yu. et al. Pathological features and molecular signatures of early olfactory dysfunction in 3xTg-AD model mice. CNS NEUROSCI THER. 2024 Feb;30(2):e14632 WB ; Mouse . 38366763

[IF=4.59] An et al. Pharmacological Basis for Use ofArmillaria melleaPolysaccharides in Alzheimer's Disease: Antiapoptosis and Antioxidation. (2017) Oxid.Med.Cell.Longev. 2017:4184562 IHC ; Mouse . 29081887

[IF=2.922] Hu et al. Pharmacological basis for application of scutellarin in Alzheimer's disease: Antioxidation and antiapoptosis. (2018) Mol.Med.Rep.Nov;18(5):4289-4296. IHC ; Mouse . 30221730

[IF=2.928] Yu H et al. Protective roles of isoastilbin against Alzheimer's disease via Nrf2-mediated antioxidation and anti-apoptosis. Int J Mol Med. 2019 Mar;43(3):1406-1416. IHC ; Mouse . 30664148

[IF=2.1] Yong Fan. et al. The effect of AQP4 on tau protein aggregation in neurodegeneration and persistent neuroinflammation after cerebral microinfarcts. OPEN MED-WARSAW. 2023 Jan;18(1): WB ; Mouse . 37873537