

For Research Use Only

Phospho-TAU (Thr181) Polyclonal antibody

Catalog Number: 28866-1-AP

9 Publications



Basic Information

Catalog Number: 28866-1-AP	GenBank Accession Number: BC000558	Purification Method: Protein A purification
Concentration: 150 ug/ml	GeneID (NCBI): 4137	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P10636	
Isotype: IgG	Full Name: microtubule-associated protein tau	
	Calculated MW: 37-46, 79-81 kDa	
	Observed MW: 50-80 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : PDGF treated SH-SY5Y cells, IHC : mouse brain tissue,
Cited Applications: WB, IF	
Species Specificity: human, mouse	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Tau (tubulin-associated unit) is a microtubule-associated protein (also known as MAPT), expressed mainly in neurons of the central nervous system. Its primary function is to modulate microtubule dynamics for maintaining axonal cytoskeleton. The Tau protein has six isoforms produced from a single gene through alternative RNA splicing. Isoforms differ in number of inserts at the N-terminal half and the number of repeats at the C-terminal half (3 repeat-3R; 4 repeat-4R). Tau is hyperphosphorylated during aging and in age-related neurodegenerative diseases such as Alzheimer's disease (AD) and fronto-temporal dementia. Hyperphosphorylation of Tau leads to the formation of neurofibrillary tangles (NFT) in the neurons and glia cells, which is one of the hallmarks of AD.

Notable Publications

Author	Pubmed ID	Journal	Application
Kaixuan Luo	35069727	Neural Plast	WB
Fang Wang	39773540	Alzheimers Res Ther	WB
Qiusha Li	39111605	Brain Res Bull	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

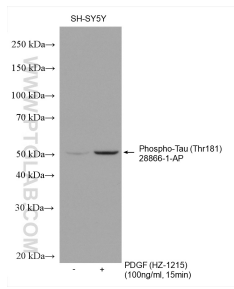
T: 4006900926

E: Proteintech-CN@ptglab.com

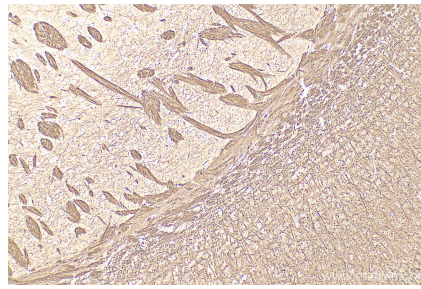
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

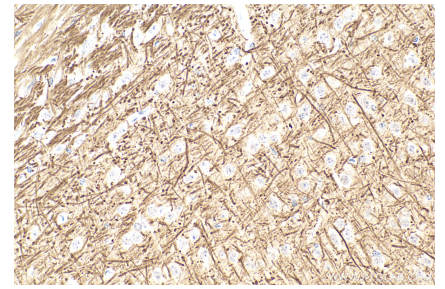
Selected Validation Data



Non-treated SH-SY5Y and PDGF (HZ-1215) treated SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 28866-1-AP (Phospho-Tau (Thr181) antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 28866-1-AP (Phospho-TAU (Thr181) antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 28866-1-AP (Phospho-TAU (Thr181) antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).