

For Research Use Only

# Phospho-TAU (Ser404) Recombinant antibody



Catalog Number: 81383-1-RR

## Basic Information

<b>Catalog Number:</b> 81383-1-RR	<b>GenBank Accession Number:</b> BC000558	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 400 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4137	<b>CloneNo.:</b> 5I16
<b>Source:</b> Rabbit	<b>Full Name:</b> microtubule-associated protein tau	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 37-46, 79-81 kDa	
	<b>Observed MW:</b> 45-55 kDa	

## Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
Human, Mouse

### Positive Controls:

WB : mouse brain tissue, λ phosphatase treated mouse brain tissue

## 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.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

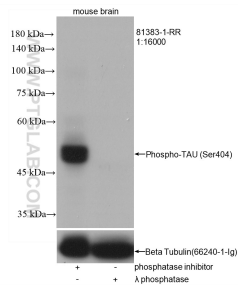
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

## Selected Validation Data



Phosphatase inhibitor treated and  $\lambda$  phosphatase treated mouse brain tissue were subjected to SDS PAGE followed by western blot with 81383-1-RR (Phospho-TAU (Ser404) antibody) at dilution of 1:16000 incubated at room temperature for 1 hours. The membrane was stripped and re-blotted with Beta Tubulin antibody as loading control.