

For Research Use Only

# Phospho-TAU (Ser214) Recombinant monoclonal antibody

Catalog Number: 87043-3-RR



## Basic Information

<b>Catalog Number:</b> 87043-3-RR	<b>GenBank Accession Number:</b> BC000558	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4137	<b>CloneNo.:</b> 252082D9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P10636	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000
<b>Isotype:</b> IgG	<b>Full Name:</b> microtubule-associated protein tau	
	<b>Calculated MW:</b> 37-46, 79-81 kDa	
	<b>Observed MW:</b> 45-60 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, rat brain tissue
<b>Species Specificity:</b> human, mouse, rat	

## Background Information

Phospho-Tau (Ser214) is a PKA-dependent phosphorylation site critical for Alzheimer's disease (AD) pathology. Ser214 hyperphosphorylation disrupts microtubule binding, promotes neurofibrillary tangle formation, and serves as a highly specific biomarker for AD and related tauopathies.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

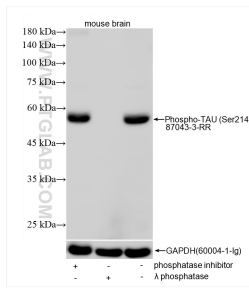
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

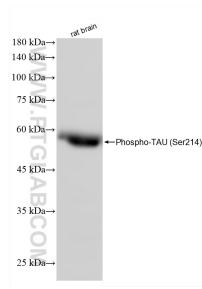
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

## Selected Validation Data



Non-treated mouse brain tissue, phosphatase inhibitor treated mouse brain tissue and  $\lambda$  phosphatase treated mouse brain tissue were subjected to SDS PAGE followed by western blot with 87043-3-RR (Phospho-TAU (Ser214) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as a loading control.



rat brain tissue were subjected to SDS PAGE followed by western blot with 87043-3-RR (TAU-Ser214 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.