

# Phospho-Tau-T181 Rabbit mAb

Catalog No.: AP1387 **Recombinant**

## Basic Information

### Observed MW

50-80kDa

### Calculated MW

79kDa

### Category

Primary antibody

### Applications

WB, IP, IF-P, IHC-P, ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC56528

## Background

This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. MAPT gene mutations have been associated with several neurodegenerative disorders such as Alzheimer's disease, Pick's disease, frontotemporal dementia, cortico-basal degeneration and progressive supranuclear palsy.

## Recommended Dilutions

**WB** 1:1000 - 1:5000

**IP** 0.5µg-4µg antibody for  
200µg-600µg extracts of  
whole cells

**IF-P** 1:50 - 1:200

**IHC-P** 1:50 - 1:200

**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Immunogen Information

### Gene ID

4137

### Swiss Prot

P10636

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

TAU; MSTD; PPND; DDPAC; MAPTL; MTBT1; MTBT2; tau-40; FTDP-17; PPP1R103; Tau-PHF6; Phospho-Tau-T181

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

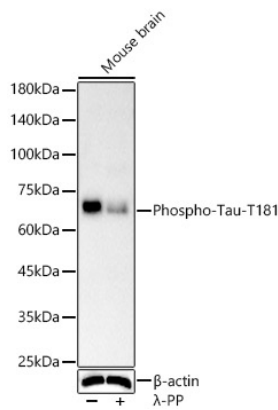
## Contact

☎ | 400-999-6126

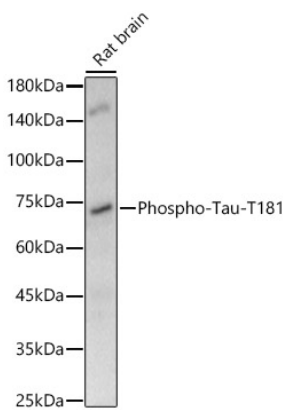
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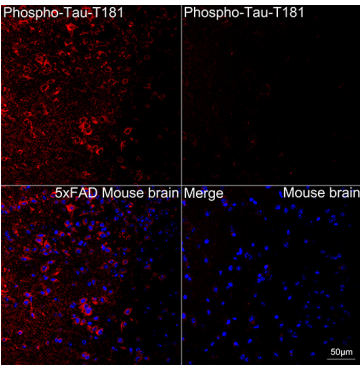
Validation Data



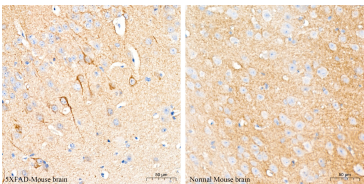
Western blot analysis of various lysates, using Phospho-Tau-T181 antibody (AP1387) at 1:2000 dilution. Mouse brain were treated by λ-PP mixed solution (1ul) at 30°C for 30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 60s.



Western blot analysis of Rat brain, using Phospho-Tau-T181 antibody (AP1387) at 1:2000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.



Confocal imaging of paraffin-embedded 5xFAD mouse brain and mouse brain using Phospho-Tau-T181 Rabbit mAb (AP1387,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x.Perform microwave antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IF staining protocol.



Immunohistochemistry analysis of Phospho-Tau-T181 in (5xFAD)Mouse brain (left) and normal Mouse brain (right) using Phospho-Tau-T181 Rabbit mAb(AP1387) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.