

For Research Use Only

# Phospho-TAU (Ser202/Thr205) Recombinant antibody



Catalog Number: 82568-1-RR

## Basic Information

Catalog Number:

82568-1-RR

Size:

1000  $\mu$ g/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC000558

GeneID (NCBI):

4137

UNIPROT ID:

P10636

Full Name:

microtubule-associated protein tau

Calculated MW:

37-46, 79-81 kDa

Observed MW:

45-55 kDa

Purification Method:

Protein A purification

CloneNo.:

4A6

Recommended Dilutions:

WB 1:5000-1:50000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human, Mouse

Positive Controls:

WB : mouse brain tissue,  $\lambda$  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

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

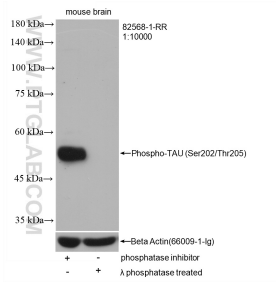
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## Selected Validation Data



Phosphatase inhibitor treated and  $\lambda$  phosphatase treated mouse brain tissue were subjected to SDS PAGE followed by western blot with 82568-1-RR (Phospho-TAU (Ser202/Thr205) antibody) at dilution of 1:10000 incubated at room temperature for 1 hours. The membrane was stripped and re-blotted with Beta Actin antibody as loading control.