

For Research Use Only

Phospho-TAU (Ser404) Recombinant antibody



Catalog Number: 81383-1-RR

1 Publications

Basic Information

Catalog Number:

81383-1-RR

Size:

400 µg/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.:

5I16

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

Human, Mouse

Cited Species:

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Wentao Zhu	38356330	J Med Chem	WB

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:

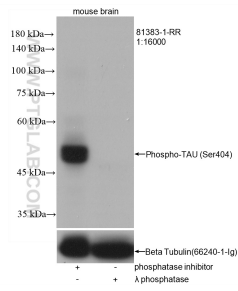
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Selected Validation Data



Phosphatase inhibitor treated and λ 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.