

For Research Use Only

Phospho-TAU (Thr217) Polyclonal antibody

Catalog Number: 31138-1-AP



Basic Information

Catalog Number:

31138-1-AP

Size:

100ul , Concentration: 500 ug/ml by Nanodrop;

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:

70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:1000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : FAD3T mouse brain tissue, 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. Various isoforms of Tau exist due to the alternative splicing, and short isoforms around 45-69 kDa and long isoforms around 100-110 kDa have been reported in different literature (8752131,15965697). Phosphorylated tau at threonine 217 (p-tau217) is one of the emerging tau markers that has repeatedly shown more promise than other p-tau isoforms as a marker of AD pathology.

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**

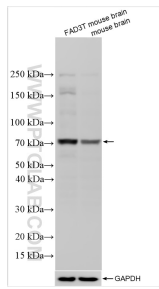
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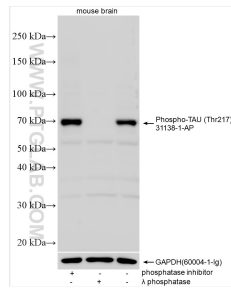
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31138-1-AP (Phospho-TAU (Thr217) antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control. The FAD3T mouse is a triple transgenic model expressing APP, PS1, and Tau transgenes.



Non-treated mouse brain tissue, phosphatase inhibitor treated mouse brain tissue and λ phosphatase treated mouse brain tissue were subjected to SDS PAGE followed by western blot with 31138-1-AP (Phospho-TAU (Thr217) antibody) at dilution of 1:500 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.