

For Research Use Only

Phospho-TAU (Ser409) Recombinant monoclonal antibody

Catalog Number: 87019-1-RR



Basic Information

Catalog Number:

87019-1-RR

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:

45-60 kDa

Purification Method:

Protein A purification

CloneNo.:

252113B1

Recommended Dilutions:

WB: 1:5000-1:50000

IF-P: 1:150-1:600

Applications

Tested Applications:

WB, IF-P, ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : mouse brain tissue,

IF-P : mouse brain tissue,

Background Information

Phosphorylation of tau at Ser409 is an early, disease-specific event in Alzheimer's brain. Catalyzed by PKA, this modification weakens tau-microtubule binding and acts as a molecular switch that initiates tau self-aggregation into paired helical filaments. Consequently, p-Ser409-tau is recognized as an early diagnostic epitope and a potential target for interrupting PKA-driven, oxidative-stress-linked tau 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

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

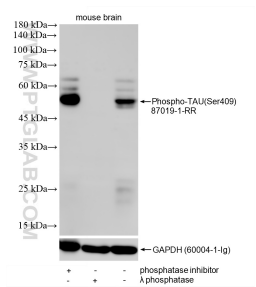
T: 4006900926

E: Proteintech-CN@ptglab.com

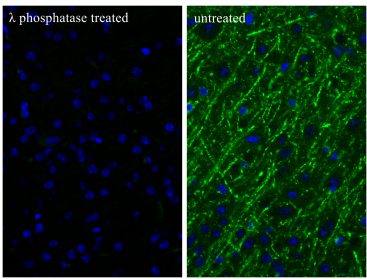
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Selected Validation Data



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 87019-1-RR (Phospho-TAU(Ser409) antibody) at dilution of 1:10000 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.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded λ phosphatase treated mouse brain tissue using Phospho-TAU (Ser409) antibody (87019-1-RR, Clone: 252113B1) at dilution of 1:300 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).