For Research Use Only

Phospho-TAU (Thr217) Recombinant monoclonal antibody

Catalog Number:87428-1-RR

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Basic Information

Catalog Number:
87428-1-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:
60-80 kDa

Purification Method:
Protein A purification

CloneNo.:
252442E8

Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:1000-1:4000
Dot Blot: 1:500-1:2000

Applications

Tested Applications:
WB, IHC, Dot Blot, ELISA

Species Specificity:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse blood,

IHC : human brain (AD), human large intestine tissue

Dot Blot : / /,

Background Information

Tau plays a crucial role in promoting and stabilizing microtubule assembly within neuronal axons. Phospho-TAU(Thr217) has emerged as a highly specific early biomarker for Alzheimer's disease (AD), detectable in both CSF and blood, effectively distinguishing AD from other dementias. This site is primarily phosphorylated by CDK5 and GSK-3 β . Beyond its diagnostic value, p-T217 hyperphosphorylation is directly linked to synaptic dysfunction, neuronal loss, and cognitive decline in AD pathogenesis.

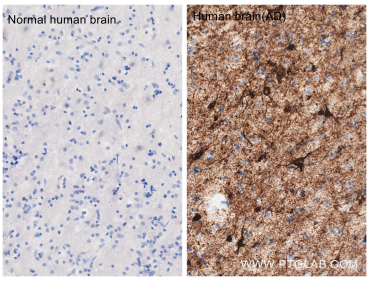
Storage

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

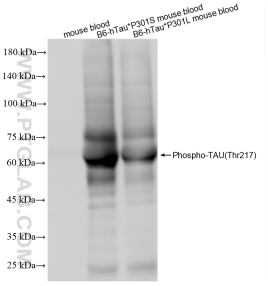
For technical support and original validation data for this product please contact:
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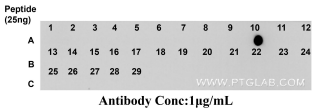
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded Normal human brain tissue (left) and human Alzheimer's disease brain(AD) slide (right) using 87428-1-RR (Phospho-TAU (Thr217) antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 87428-1-RR (Phospho-TAU(Thr217) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Antibody Conc:1μg/mL

Column 1:TAU-Ser404
Column 2:TAU-Thr181
Column 3:TAU-Ser202
Column 4:TAU-Thr205
Column 5:TAU-Ser301
Column 6:TAU-Ser262
Column 7:TAU-Ser356
Column 8:TAU-Ser199/202
Column 9:TAU-Ser396/404
Column 10:TAU-Thr217
Column 11:TAU-Thr263
Column 12:TAU-Ser416
Column 13:TAU-Ser293
Column 14:TAU-Ser198
Column 15:TAU-Thr50
Column 16:TAU-Ser46
Column 17:TAU-Ser199
Column 18:TAU-Ser232
Column 19:TAU-Ser214
Column 20:TAU-Ser409
Column 21:TAU-Ser324
Column 22:TAU-Thr212
Column 23:TAU-Ser396
Column 24:TAU-Thr212/Ser214
Column 25:TAU-Ser235
Column 26:TAU-Ser413
Column 27:TAU-Ser262/Thr263
Column 28:TAU-Ser422
Column 29: PBS

Dot blot analysis was used to confirm the specificity of 87428-1-RR,Phospho-TAU (Thr217) antibody. peptides were spotted onto NC and probed with antibody at 1 μg/mL.The amount of peptide (25ng) spotted is indicated next to each row.