Tau(Phospho-T231) Rabbit mAb

Catalog No: #13381

Package Size: #13381-1 50ul #13381-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Tau(Phospho-T231) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	SC58-08
Purification	ProA affinity purified
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Thr231 of human Tau.
Conjugates	Unconjugated
Other Names	AI413597 antibody AW045860 antibody DDPAC antibody FLJ31424 antibody FTDP 17 antibody G protein beta1/gamma2 subunit interacting factor 1 antibody MAPT antibody MAPTL antibody MGC134287 antibody MGC138549 antibody MGC156663 antibody Microtubule associated protein tau antibody Microtubule associated protein tau isoform 4 antibody Microtubule-associated protein tau antibody MSTD antibody Mtapt antibody MTBT1 antibody MTBT2 antibody Neurofibrillary tangle protein antibody Paired helical filament tau antibody Paired helical filament-tau antibody PHF tau antibody PHF-tau antibody PPND antibody PPP1R103 antibody Protein phosphatase 1, regulatory subunit 103 antibody pTau antibody RNPTAU antibody TAU antibody TAU_HUMAN antibody Tauopathy and respiratory failure, included antibody
Accession No.	Swiss-Prot#:P10636
Calculated MW	46 kDa
SDS-PAGE MW	48 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

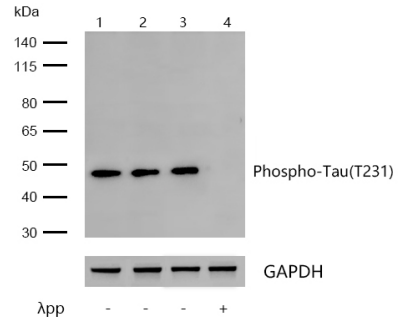
Application Details

WB: 1:500-1:2000

ICC/IF: 1:50-1:200

IHC: 1:50-1:200

Images



All lanes : Tau(Phospho-T231) Rabbit mAb at 1/1k dilution

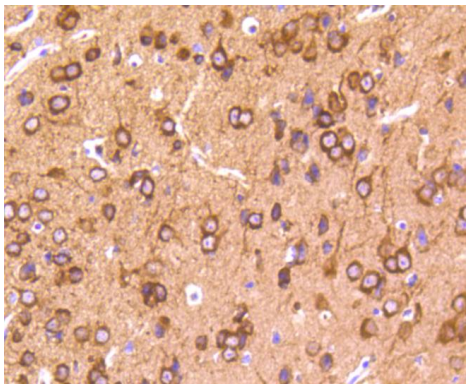
Lane 1 : SH-SY5Y whole cell lysates
Lane 2 : Rat brain tissue lysates
Lane 3 : Mouse brain tissue lysates
Lane 4 : Mouse brain treated with λpp for 1 hour tissue lysates

Lysates/proteins at 20 µg per lane.

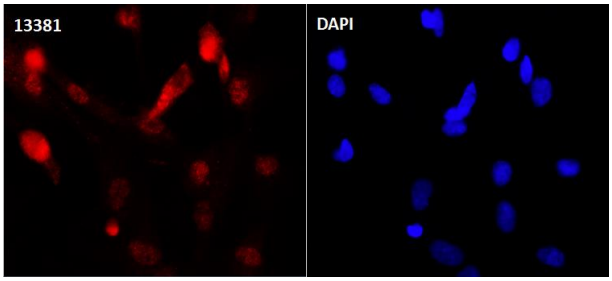
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 46 kDa
Observed band size: 48 kDa

Exposure time: 9 seconds



Formalin-fixed;paraffin-embedded mouse brain tissue stained for Tau(Phospho-T231) using 13381 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence Tau (Phospho-T231) antibody (13381)
ICC/IF staining of Tau (Phospho-T231 in SH-SY5Y cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 13381 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 647 goat anti rabbit;used at a dilution of 1/500.
Nuclei were counterstained with DAPI.

Background

Tau, also known as MAPT (microtubule-associated protein tau), MAPTL, MTBT1 or TAU, is a 758 amino acid protein that localizes to the cytoplasm, as well as to the cytoskeleton and the cell membrane, and contains four Tau/MAP repeats. Expressed in neuronal tissue and existing as multiple alternatively spliced isoforms, Tau functions to promote microtubule assembly and stability and is thought to be involved in the maintenance of neuronal polarity. Tau may also link microtubules with neural plasma membrane components and, addition to its role in microtubule stability, is also necessary for cytoskeletal plasticity. Tau is highly subject to a variety of post-translational modifications, including phosphorylation on serine and threonine residues, polyubiquitination (and subsequent proteasomal degradation) and glycation of specific Tau isoforms. Defects in the gene encoding Tau are associated with Alzheimers disease, pallido-ponto-nigral degeneration (PPND), corticobasal degeneration (CBD) and progressive supranuclear palsy (PSP).

References

1. Wang, HY. et al. 2012. Reducing amyloid-related Alzheimer's disease pathogenesis by a small molecule targeting filamin A. J. Neurosci. 32: 9773-9784.
2. Kamnaksh, A. et al. 2012. Neurobehavioral, cellular, and molecular consequences of single and multiple mild blast exposure. Electrophoresis. 33: 3680-3692.

Published Papers

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PMID:40158900

Note: This product is for in vitro research use only and is not intended for use in humans or animals.