

Recombinant Tau(Phospho-Thr181) Rabbit mAb(G69)

Catalog No: #58002

Package Size: #58002-1 50ul #58002-2 100ul

Description

Product Name	Recombinant Tau(Phospho-Thr181) Rabbit mAb(G69)
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	G69
Purification	Affinity purification
Applications	ELISA, WB, IHC, IF
Species Reactivity	Hu, Ms, Rt
Specificity	The antibody detects endogenous level of Tau only when phosphorylated at threonine 181.
Immunogen Type	Peptide
Immunogen Description	Peptide sequence around phosphorylation site of threonine 181 derived from Human Tau.
Conjugates	Unconjugated
Target Name	Tau
Modification	Phospho
Other Names	MAPT; MTAPT; MTBT1; Neurofibrillary tangle protein; PHF-tau
Accession No.	Swiss-Prot: P10636NCBI Protein: NP_001116538.1
Calculated MW	Predicted MW: 48 62 78 kd
SDS-PAGE MW	79/50-80 kDa
Concentration	0.8 mg/ml
Formulation	PBS with 0.02% sodium azide, pH7.3.
Storage	Upon delivery aliquot and store at -20 °C for one year. Avoid freeze/thaw cycles.

Application Details

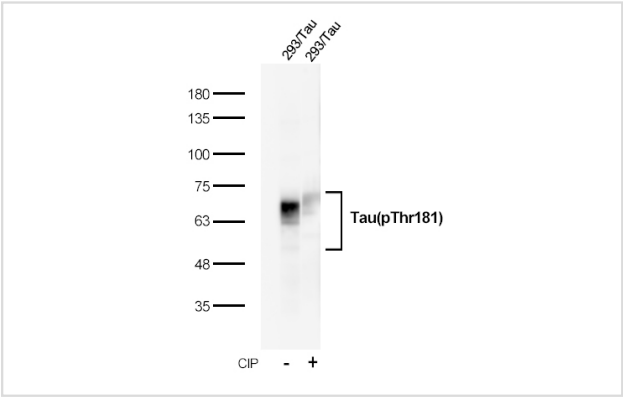
Elisa: 1:10000

WB: 1:500~1:1000

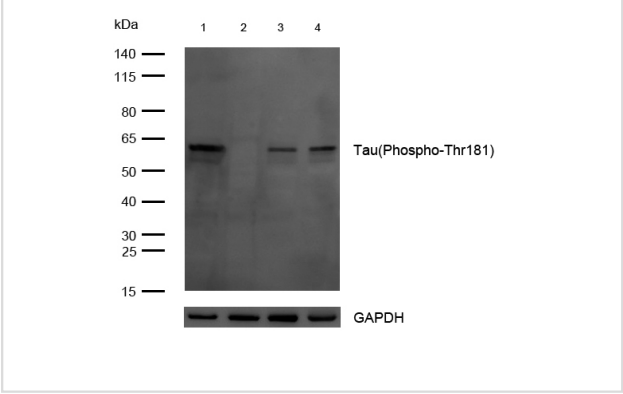
IHC: 1:50-1:200

IF: 1:50-1:200

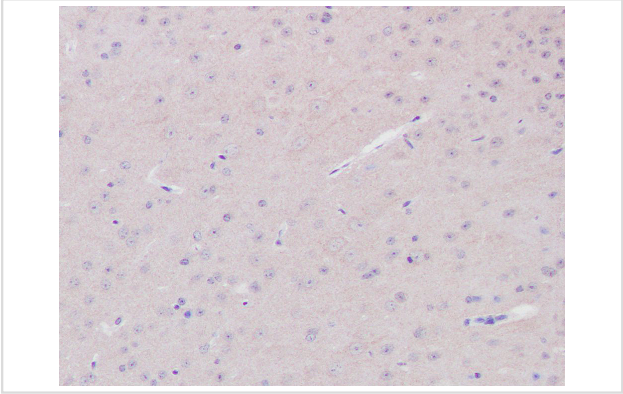
Images



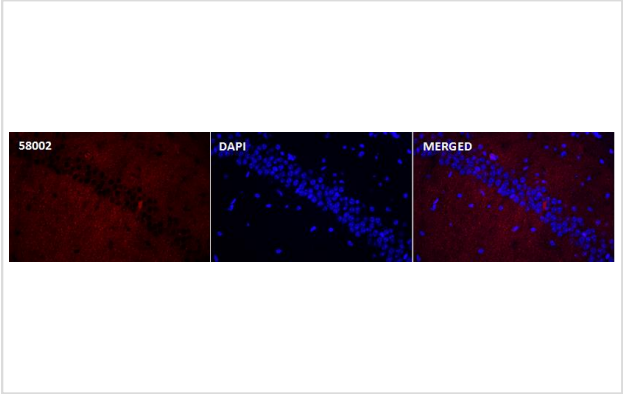
Western blot analysis of extracts from 293 cells, transfected with Tau and treated with calf intestinal phosphatase (CIP) using Tau(Phospho-Thr181) Rabbit mAb.



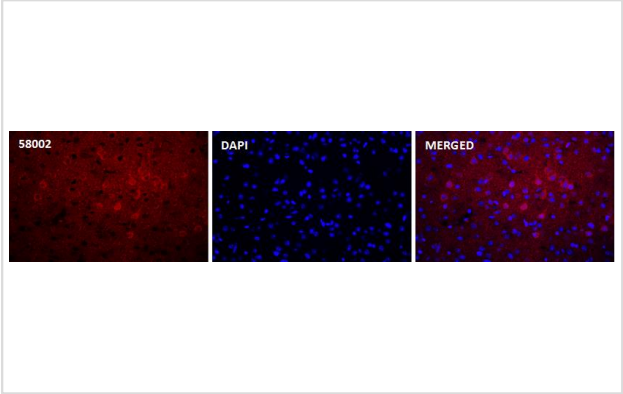
All lanes : Recombinant Tau(Phospho-Thr181) Rabbit mAb at 1/1k dilution Lane 1 : Wild-type HAP1 cell lysate Lane 2 : Tau(Phospho-Thr181) knockout HAP1 cell lysate Lane 3 : Mouse Brain lysates Lane 4 : Rat Brain lysates Lysates/proteins at 20 µg per lane. Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution Predicted band size: 79 kDa Observed band size: 50-80 kDa Exposure time: 7 seconds Lysates/proteins at 20 µg per lane.



Formalin-fixed, paraffin-embedded Mouse brain tissue stained for Tau(Phospho-Thr181) using 58002 at 1/50 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence Tau(Phospho-Thr181) antibody (58002) ICC/IF staining of Tau(Phospho-Thr181) in mouse brain tissue. mouse brain was fixed with 4% Paraformaldehyde permeabilized for 20 minutes. Samples were incubated with 58002 at a working dilution of 1/50. The secondary antibody was Alexa Fluor 647 goat anti rabbit, used at a dilution of 1/500. Nuclei were counterstained with DAPI. Nuclei were counterstained with DAPI.



Immunocytochemistry/ Immunofluorescence Tau(Phospho-Thr181) antibody (58002) ICC/IF staining of Tau(Phospho-Thr181) in mouse brain tissue. mouse brain was fixed with 4% Paraformaldehyde permeabilized for 20 minutes. Samples were incubated with 58002 at a working dilution of 1/50. The secondary antibody was Alexa Fluor 647 goat anti rabbit, used at a dilution of 1/500. Nuclei were counterstained with DAPI.

Background

Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity. The C-terminus binds axonal microtubules while the N-terminus binds neural plasma membrane components, suggesting that tau functions as a linker protein between both. Axonal polarity is predetermined by tau localization (in the neuronal cell) in the domain of the cell body defined by the centrosome. The short isoforms allow plasticity of the cytoskeleton whereas the longer isoforms may preferentially play a role in its stabilization.

Puig B, et al.(2005) Acta Neuropathol (Berl). 110(3):261-268.

Published Papers

Caixia Yan;Qilin Diao;Yuxi Zhao;Cheng Zhang;Xiaoya He;Ruijie Huang;Yan Li et al., Fusobacterium nucleatum infection-induced neurodegeneration and abnormal gut microbiota composition in Alzheimer's disease-like rats, , (2022)

[PMID:36188448](#)

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