Anti-Phospho-Tau (Thr231) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015199

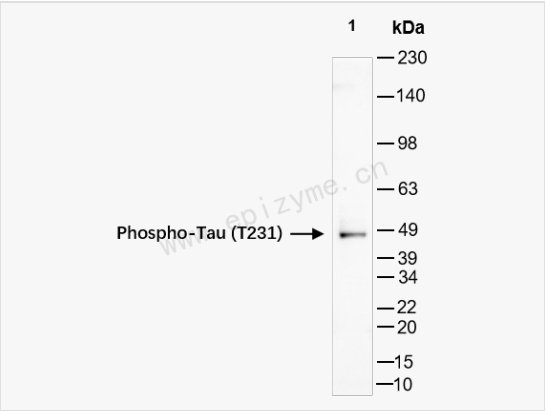
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	10C20C82
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-Tau (T231)
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-Tau (Thr231) Rabbit mAb [10C20C82] is for research use only and not for use in diagnostic or therapeutic procedures.

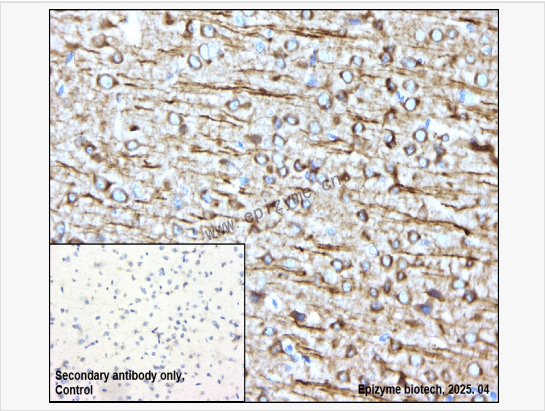
Protein Information

Synonyms	AI413597; AW045860; DDPAC; FLJ31424; FTDP 17; G protein beta1/gamma2 subunit interacting factor 1; MAPT; MAPTL; MGC134287; MGC138549; MGC156663; Microtubule associated protein tau; Microtubule associated protein tau isoform 4; Microtubule-associated protein tau; MSTD; Mtapt; MTBT1; MTBT2; Neurofibrillary tangle protein; Paired helical filament tau; Paired helical filament-tau; PHF tau; PHF-tau; PPND; PPP1R103; Protein phosphatase 1, regulatory subunit 103; pTau; RNPTAU; TAU; TAU_HUMAN; Tauopathy and respiratory failure; Tauopathy and respiratory failure, included.
Calculated MW	Calculated MW: 79 kDa; Observed MW: 46 kDa
Uniprot ID	P10636
Gene ID	4137
Background	This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. MAPT gene mutations have been associated with several neurodegenerative disorders such as Alzheimer's disease, Pick's disease, frontotemporal dementia, cortico-basal degeneration and progressive supranuclear palsy. [provided by RefSeq, Jul 2008]
Cellular Location	The tau/MAP repeat binds to tubulin. Type I isoforms contain 3 repeats while type II isoforms contain 4 repeats.
Tissue Location	Expressed in neurons. Isoform PNS-tau is expressed in the peripheral nervous system while the others are expressed in the central nervous system.

Validation Images



Western Blot - Anti-Phospho-Tau (Thr231) Rabbit mAb [10C20C82]
All lanes: R015199 at 1:1,000 dilution
Lane 1: Mouse brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 79 kDa
Observed band size: 46 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-Tau (Thr231) Rabbit mAb [10C20C82]
Sample: Paraformaldehyde-fixed, paraffin embedded rat brain tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015199 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.