Anti-Tau 4R Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R016132

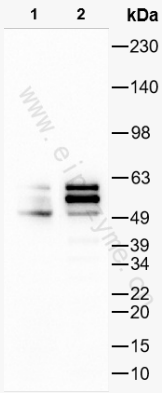
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Mouse, Rat, Human
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.	67K76M08
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Tau 4R
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% 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-Tau 4R Rabbit mAb [67K76M08] is for research use only and not for use in diagnostic or therapeutic procedures.

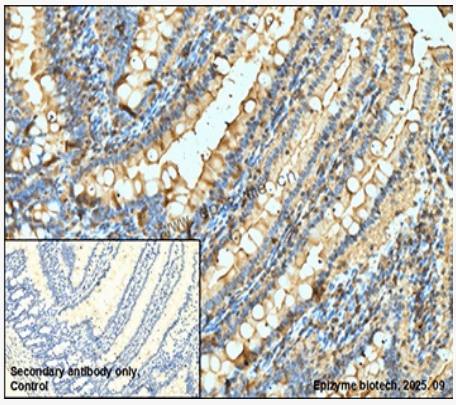
Protein Information

Synonyms	tau; DDPAC; FTD1; FTDP-17; MAPTL; MSTD; MTBT1; MTBT2; PPND; PPP1R103; Tau-PHF6; tau-40; Mtapt; PHF-tau; MAPT_0N4R; MAPT_1N4R; MAPT_2N4R; RNPTAU; pTau; TAU_BOVIN; MAPT; Neurofibrillary tangle protein; Paired helical filament-tau (PHF-tau); TAU_HUMAN; TAU_MOUSE; TAU_RAT.
Calculated MW	Calculated MW: 79 kDa; Observed MW: 50-80 kDa
Uniprot ID	P10636-6, P10636-7, P10636-8
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	Cytoplasm Cytosol Cell membrane Peripheral membrane protein Cytoplasmic side Cytoplasm Cytoskeleton Cell projection Axon Cell projection Dendrite Secreted Mostly found in the axons of neurons, in the cytosol and in association with plasma membrane components (PubMed:10747907). Can be secreted; the secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm into the ERGIC (endoplasmic reticulum-Golgi intermediate compartment) followed by vesicle entry and secretion (PubMed:32272059).
Tissue Location	Expressed in neurons. Isoform PNS-tau is expressed in the peripheral nervous system while the others are expressed in the

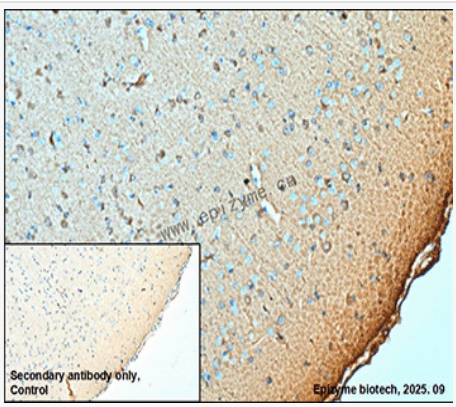
Validation Images



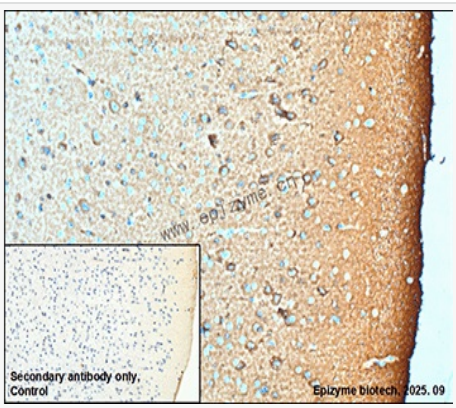
Western Blot - Anti-Tau 4R Rabbit mAb [67K76M08]
All lanes: R016132 at 1:1,000 dilution
Lane 1: Mouse brain whole tissue lysates
Lane 2: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 79 kDa
Observed band size: 50-80 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Tau 4R Rabbit mAb [67K76M08]
Sample: Paraformaldehyde-fixed, paraffin embedded rat colon tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R016132 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.



Immunohistochemistry - Anti-Tau 4R Rabbit mAb [67K76M08]
Sample: Paraformaldehyde-fixed, paraffin embedded rat brain tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R016132 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.



Immunohistochemistry - Anti-Tau 4R Rabbit mAb [67K76M08]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R016132 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.