

Phospho-Tau (Thr231) Rabbit mAb

Catalog # AP78610

Specification

Phospho-Tau (Thr231) Rabbit mAb - Product Information

Application WB
Primary Accession P10636

Reactivity Human, Mouse, Rat

Host Rabb

Clonality Monoclonal Antibody

Calculated MW 78928

Phospho-Tau (Thr231) Rabbit mAb - Additional Information

Gene ID 4137

Other Names

MAPT

Dilution

WB~~1/500-1/1000

Format

Liquid

Phospho-Tau (Thr231) Rabbit mAb - Protein Information

Name MAPT (<u>HGNC:6893</u>)

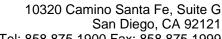
Synonyms MAPTL, MTBT1, TAU

Function

Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity (PubMed:21985311). 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 (PubMed:21985311" target="_blank">21985311, PubMed:32961270). Axonal polarity is predetermined by TAU/MAPT 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.

Cellular Location

Cytoplasm, cytosol. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton. Cell projection, axon. Cell projection, dendrite. Secreted Note=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





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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 central nervous system

Phospho-Tau (Thr231) Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Phospho-Tau (Thr231) Rabbit mAb - Images

