

Phospho-Tau (S404) Antibody

Rabbit mAb Catalog # AP93124

Specification

Phospho-Tau (\$404) Antibody - Product Information

Application WB, IHC, ICC, IP

Primary Accession P10636
Reactivity Rat

Clonality Monoclonal

Other Names

MAPT; Microtubule-associated protein tau; MTBT1; Neurofibrillary tangle protein; Paired helical

filament-tau; PHF-tau

Isotype Rabbit IgG
Host Rabbit
Calculated MW 78928 Da

Phospho-Tau (S404) Antibody - Additional Information

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

Phospho-Tau (S404)

Description 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.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline ,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

Phospho-Tau (S404) Antibody - Protein Information

Name MAPT (HGNC:6893)

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:<a href="http://www.uniprot.org/citations/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 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

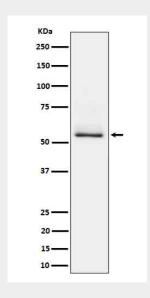
Expressed in neurons. Isoform PNS-tau is expressed in the peripheral nervous system while the others are expressed in the central nervous system

Phospho-Tau (S404) Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Phospho-Tau (S404) Antibody - Images



Western blot analysis of Phospho-Tau (S404) expression in mouse brain cell lysate.