
Tau (Ser416) Antibody

Subcategory: Rabbit Polyclonal Antibody, Phosphospecific Antibody

Cat. No.: 252587

Unit: 0.1 ml

Description:

Tau protein promotes microtubule assembly and stability.

Tau is also involved in the establishment and maintenance of neural polarity. The C-terminus domain of Tau binds to axonal microtubules whereas the N-terminus domain binds to neural plasma membrane components, therefore suggesting that Tau protein functions as a linker between the two.

Axonal polarity is predetermined by tau localization 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. PNS-tau is expressed in the peripheral nervous system whereas the other isoforms are expressed in the central nervous system. Defects in Tau protein are a cause of dementia, parkinsonism and Alzheimer disease. It has been well documented that hyperphosphorylated tau is a major component of paired helical filaments in AD brain. Serine 416 has been demonstrated to be a major phosphorylation site in vitro by CaM kinase II.

Isotype: Rabbit Ig

Applications: E, WB

Species Reactivity: B, D, H, M, R, Mk

Format: Each vial contains 0.1 ml IgG in HEPES pH7.5, 150 mM NaCl, 0.01% BSA and 50% glycerol. Antibody was purified by immunogen affinity chromatography.

Alternate Names: Microtubule-associated protein tau; Neurofibrillary tangle protein; Paired helical filament-tau; PHF-tau; MAPT; MAPTL; MTBT1, TAU

Accession No.: P19332

Antigen: KLH-conjugated synthetic phosphopeptide encompassing a sequence surrounding Ser416 of rat Tau.

Application Notes: E: 1:1,000; WB: 1:1,000

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.