
Phospho-Tau Protein (Thr489) Antibody

Subcategory: Rabbit Polyclonal Antibody, Phosphospecific Antibody

Cat. No.: 251362

Unit: 0.1 mg

Description:

Microtubule-associated protein tau (tau protein) promotes microtubule assembly and stability, and is 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. 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 preferentially play a role in its stabilization.

Hyperphosphorylation of the tau protein (tau inclusions, pTau) can result in the self-assembly of tangles of paired helical filaments and straight filaments, which are involved in the pathogenesis of Alzheimer's disease and other tauopathies.

Isotype: Rabbit Ig

Applications: E, WB, IHC

Species Reactivity: H, M, R

Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

Alternate Names: Microtubule-associated protein tau; Neurofibrillary tangle protein; Paired helical filament-tau; MAPT PHF-tau; MAPTL; MTBT1, TAU; Phospho-Tau Protein (Thr489)

Accession No.: P10636

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Phospho-Tau Protein (Thr489).

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:100-1:500

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.