

Product datasheet for AP02394PU-S

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MAPT / TAU pSer396 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: Western blot: 1/500~1/1000.

Immunohistochemistry: 1/50~1/100.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Immunogen: Peptide sequence around phosphorylation site of Serine 396 (Y-K-S(p)-P-V) derived from

Human Tau. Peptide-KLH.

Specificity: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using

epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. This phospho antibody detects endogenous levels of Tau only when phosphorylated at

serine396.

Formulation: PBS (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol.

State: Aff - Purified

State: Liquid purified Ig fraction.

Concentration: lot specific

Purification: Immunoaffinity Chromatography.

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 48, 62, 78 kda (Predicted)

Gene Name: microtubule associated protein tau

Database Link: Entrez Gene 4137 Human

P10636





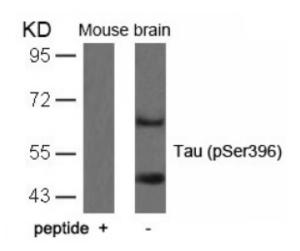
Background:

Tau is a neuronal microtubule associated protein found predominantly on axons. The function of Tau is to promote tubulin polymerisation and stabilise microtubules, but it also serves to link certain signalling pathways to the cytoskeleton. Tau, in its hyperphosphorylated form, is the major component of paired helical filaments (PHF) and neurofibrillary lesions in Alzheimer's disease (AD) brain. Hyperphosphorylation impairs the microtubule binding function of Tau, resulting in the destabilisation of microtubules in AD brains, ultimately leading to the degeneration of the affected neurons. Hyperphosphorylated tau is also found in a range of other central nervous system disorders. Numerous serine/threonine kinases, including GSK3 beta, PKA, Cdk5, and casein kinase II can phosphorylate Tau.

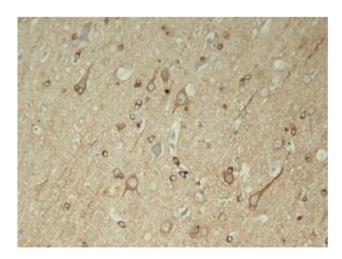
Synonyms:

MAPTL, MTBT1, Microtubule-associated protein tau, PHF-tau, Neurofibrillary tangle protein, Paired helical filament-tau

Product images:



Western blot analysis of extract from mouse brain tissue using Tau antibody pSer396 ([AP02394PU-N] or AP02394PU-S).



Immunohistochemical analysis of Paraffin-Embedded Rat Hippocampal region tissue from model with Alzheimer's Disease using Tau antibody pSer396 ([AP02394PU-N] or AP02394PU-S)