

Product datasheet for AP02404PU-S

MAPT / TAU pSer404 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies Applications: IF, IHC, WB Recommended Dilution: Western Blot: 1/500-1/1000. Incubate Membrane with diluted antibody in 5% nonfat milk, 1xTBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight. Immunofluorescence: 1/100-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/100. **Reactivity:** Human, Mouse, Rat Host: Rabbit **Clonality:** Polyclonal Immunogen: Synthetic peptide around phosphorylation site of Serine 404 (D-T-p-P-R) derived from Human Tau. AP02404PU antibody detects endogenous levels of Tau only when phosphorylated at Serine Specificity: 404. Formulation: PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl State: Aff - Purified State: Liquid purified lg fraction Stabilizer: 50% Glycerol Preservative: 0.02% Sodium Azide **Concentration:** lot specific **Purification:** Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide. Unconjugated **Conjugation:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Storage: Avoid repeated freezing and thawing. Stability: Shelf life: one year from despatch. Predicted Protein Size: 48, 62, 78 KDa



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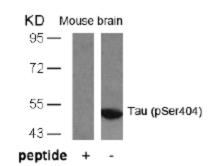
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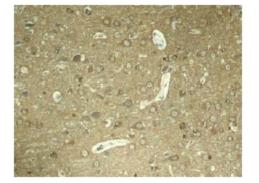
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	MAPT / TAU pSer404 Rabbit Polyclonal Antibody – AP02404PU-S
Gene Name:	microtubule associated protein tau
Database Link:	<u>Entrez Gene 4137 Human</u> <u>P10636</u>
Background:	Tau is a neuronal microtubule associated protein found predominantly on 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:



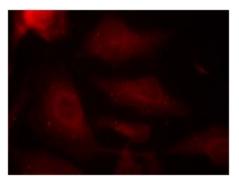
Western blot analysis of extract from Mouse brain tissue using Tau antibody (phospho-Ser404) Cat.-No. AP02404PU and the same antibody preincubated with blocking peptide.



Immunohistochemical analysis of paraffinembedded Rat hippocampal region tissue from a model with Alzheimer's Disease using Tau antibody (phospho-Ser404) Cat.-No. AP02404PU.

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Immunofluorescence staining of methanol-fixed HeLa cells using Tau antibody (phospho-Ser404) Cat.-No. AP02404PU.

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