

Product datasheet for AP02627PU-S

MAPT / TAU Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1:500~1000. Immunohistochemistry: 1:50~1:100.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized non-phosphopeptide derived from human Tau around the phosphorylation site of serine 396 (Y-K-S <i>p</i> -P-V).
Specificity:	Tau antibody detects endogenous levels of total Tau protein.
Formulation:	PBS (without Mg2+ and Ca2+), pH 7.4 containing 150mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid purified IgG
Concentration:	lot specific
Purification:	Affinity-chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	microtubule associated protein tau
Database Link:	<u>Entrez Gene 4137 Human</u> <u>P10636</u>



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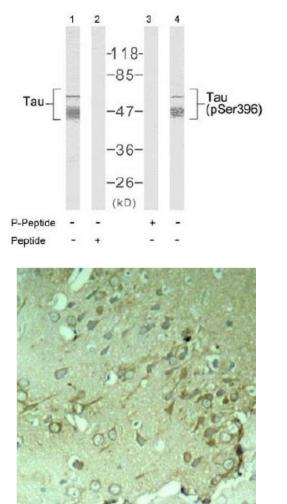
GRIGENE MAPT / TAU Rabbit Polyclonal Antibody – AP02627PU-S

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 (Lane 1 and 2) and Tau (pSer396) antibody (Lane 3 and 4).

Immunohistochemical analysis of paraffinembedded rat hippocampal region tissue from a model with Alzheimers Disease using Tau antibody.

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