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Product datasheet for AP02632PU-S

MAPT / TAU Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western Blot: 1/500~1/1000. Immunofluorescence: 1/100~1/200. Immunohistochemistry on Paraffin Sections: 1/50~1/100.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized non-phosphopeptide derived from Human Tau around the phosphorylation site of threonine 231 (V-R-T*p*-P-P).
Specificity:	This 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 fraction.
Concentration:	lot specific
Purification:	Affinity-chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	microtubule associated protein tau
Database Link:	Entrez Gene 4137 Human P10636

View online »

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:

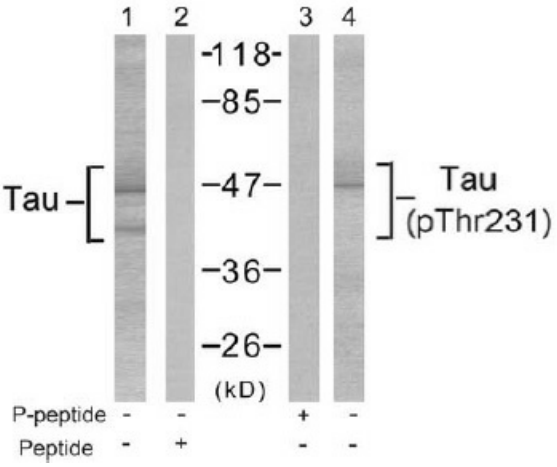

Figure 2. Western blot analysis of extract from Mouse brain tissue using Tau Antibody (#AP02632PU, Lane 1 and 2) and Tau pThr231 Antibody (#AP02402PU, Lane 3 and 4).

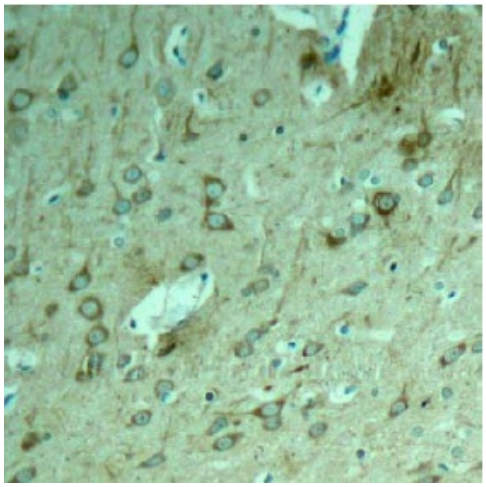

Figure 3. Immunofluorescence staining of paraffin-embedded human hippocampal region tissue from the falling sickness disease using Tau Antibody (#AP02632PU, green).

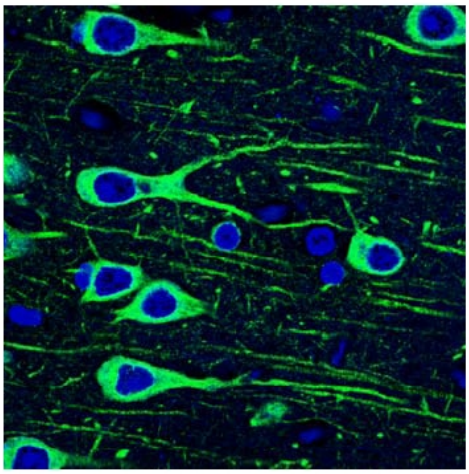

Figure 1. Immunohistochemical analysis of paraffin-embedded Rat Hippocampal region tissue from a model with Alzheimer's Disease using Tau Antibody (#AP02632PU).