

## Product datasheet for **AP02630PU-S**

### MAPT / TAU Rabbit Polyclonal Antibody

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Applications:         | WB  |
| Recommended Dilution: | Western Blot: 1:500~1000.   |
| 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 threonine 181 (P-K-TP-P-P).                       |
| Specificity:          | Tau antibody detects endogenous levels of total Tau protein.  |
| Formulation:          | PBS(without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4 containing 150mM NaCl, 0.02% sodium azide and 50% glycerol<br>State: Aff - Purified<br>State: Liquid purified IgG |
| Concentration:        | lot specific  |
| Purification:         | Affinity-chromatography using epitope-specific immunogen  |
| Conjugation:          | Unconjugated  |
| Storage:              | Store the antibody at -20°C.<br>Avoid repeated freezing and thawing.  |
| Stability:            | Shelf life: one year from despatch.   |
| Gene Name:            | microtubule associated protein tau  |
| Database Link:        | <a href="#">Entrez Gene 4137 Human P10636</a>   |



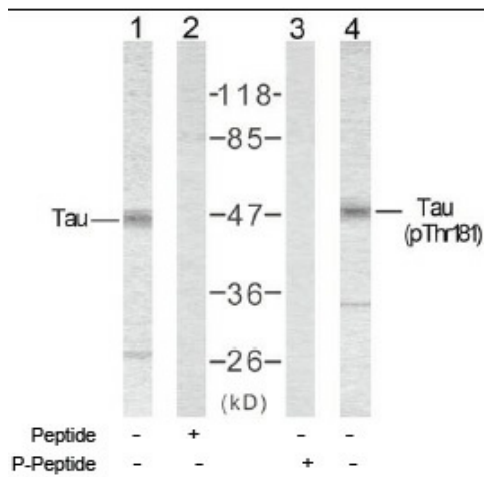
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**Background:**

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 (pThr181) antibody (Lane 3 and 4).