

## Product datasheet for **AM26411PU-L**

### MAPT / TAU pThr181 (177-187) Mouse Monoclonal Antibody [Clone ID: 1A4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1A4
Applications:	WB
Recommended Dilution:	Western blot
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	KLH conjugated with a short peptide corresponding to the amino acid sequence 177-187 on the phosphorylated Tau protein
Specificity:	This antibody recognizes the aa177-187 on phosphorylated Tau protein and its KLH conjugate, but not recognizes KLH alone. The antibody detected a 46kD band in mouse brain tissue lysate.
Formulation:	0.01M PBS pH7.2 State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	Double distilled water is recommended to reconstitute the antibody.
Purification:	Protein G affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20 °C. 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>



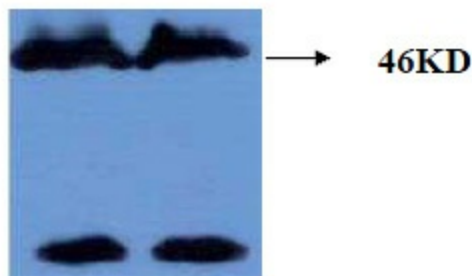
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**Background:**

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:**

Detect the mouse brain tissue lysates using antibody (Tau-pho 181 1A4) at 1:20000.5ug/ml dilution