

## Product datasheet for **AP20735PU-N**

### Tau (MAPT) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunofluorescence:</b> 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Tau protein. (region surrounding Pro206)
Formulation:	Phosphate buffered saline (PBS), pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and; purity > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	50 to 80 kDa
Gene Name:	microtubule associated protein tau
Database Link:	<u><a href="#">Entrez Gene 17762 Mouse</a></u> <u><a href="#">Entrez Gene 29477 Rat</a></u> <u><a href="#">Entrez Gene 4137 Human</a></u> <u><a href="#">P10636</a></u>



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**Background:**

Tau, also known as MAPT (microtubule-associated protein tau), MAPTL, MTBT1 or TAU, is a 758 amino acid protein that localizes to the cytoplasm, as well as to the cytoskeleton and the cell membrane, and contains four Tau/MAP repeats. Expressed in neuronal tissue and existing as multiple alternatively spliced isoforms, Tau functions to promote microtubule assembly and stability and is thought to be involved in the maintenance of neuronal polarity. Tau may also link microtubules with neural plasma membrane components and, addition to its role in microtubule stability, is also necessary for cytoskeletal plasticity.

**Synonyms:**

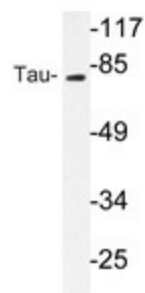
MAPTL, MTBT1, Microtubule-associated protein tau, PHF-tau, Neurofibrillary tangle protein, Paired helical filament-tau

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Alzheimer's disease, MAPK signaling pathway

**Product images:**

Western blot analyzes of Tau antibody (Cat.-No.: AP20735PU-N) in extracts from mouse brain cells.