

Product datasheet for **AP23205PU-N**

Tau (MAPT) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry on Paraffin Sections: 5 µg/ml. Western Blot: 1/500 - 1/1000.
Reactivity:	Human, Bovine, Canine, Chicken, Goat, Monkey, Mouse, Rabbit, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthesized non-phosphopeptide derived from human Tau around the phosphorylation site of serine 422
Specificity:	This antibody detects endogenous levels of total MAPT / TAU.
Formulation:	PBS (without Mg ²⁺ , Ca ²⁺), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity chromatography
Conjugation:	Unconjugated
Storage:	Store (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 17762 Mouse Entrez Gene 29477 Rat Entrez Gene 4137 Human P10636



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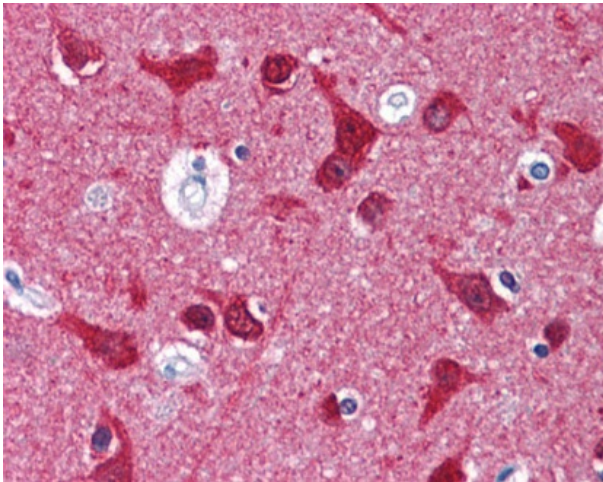
Background: Tau promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity. The C-terminus binds axonal microtubules while the N-terminus binds neural plasma membrane components, suggesting that tau functions as a linker protein between both. Axonal polarity is predetermined by tau localization (in the neuronal cell) in the domain of the cell body defined by the centrosome. The short isoforms allow plasticity of the cytoskeleton whereas the longer isoforms may preferentially play a role in its stabilization. In Alzheimer disease, the neuronal cytoskeleton in the brain is progressively disrupted and replaced by tangles of paired helical filaments (PHF) and straight filaments, mainly composed of hyperphosphorylated forms of TAU.

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

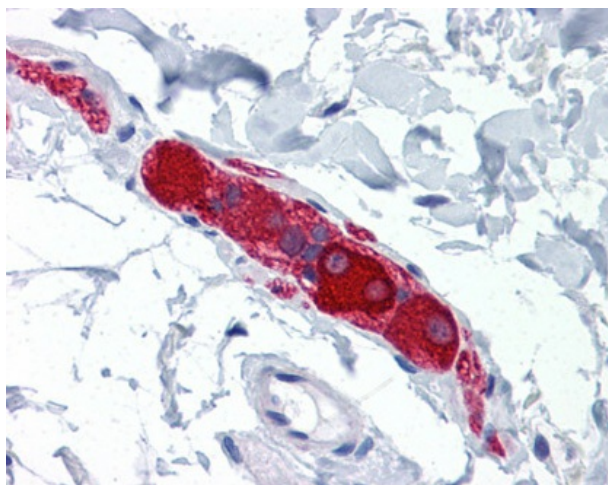
Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, MAPK signaling pathway

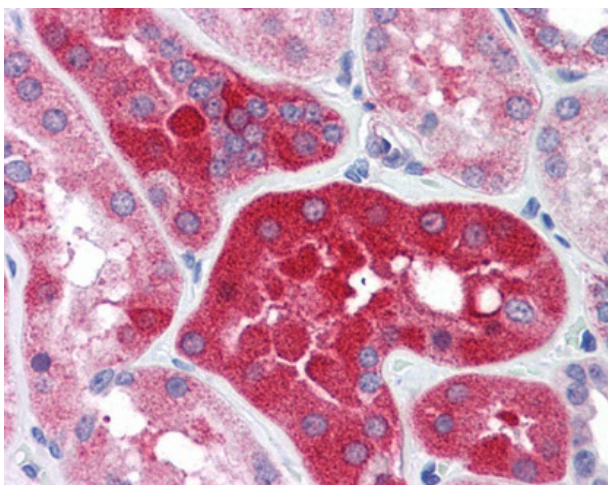
Product images:



Human Brain, cortex: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Small Intestine, submucosal plexus:
Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)