

## Anti-Phospho-MAPT (Ser516, 199) Polyclonal Antibody

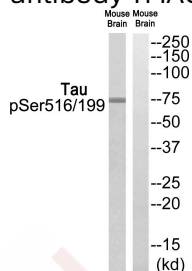
## Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Actual: 74 kDa.
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.

## Applications

## Verified Activity:

1. Western blot analysis of extracts from Mouse brain cells, using Tau (Phospho-Ser516/199) antibody TMAC-03968. The lane on the right is treated with the synthesized peptide.



Application:	WB
Recommended	WB: 1:500-3000

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Peptide sequence around phosphorylation site of serine 516/199 (Y-S-S(p)-P-G) derived from Human Tau
Antigen Species:	human
Uniprot ID:	P10636
Synonyms:	p-MAPT (Ser516, 199);MAPT (p-S516, 199);MAPT (p-Ser516, 199);p-MAPT (S516, 199)

## Research Background

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/MAPT 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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