

## Anti-Phospho-MAPT (Ser404) Polyclonal Antibody

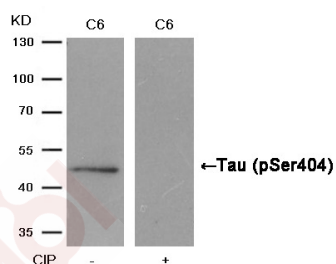
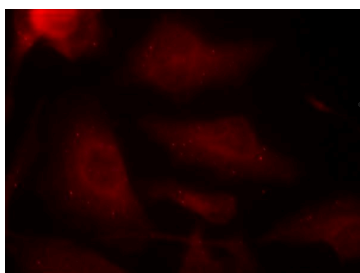
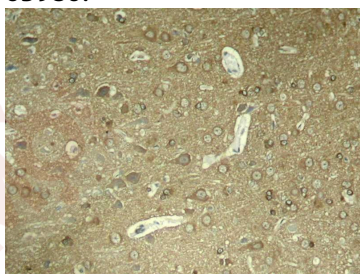
### Product Details

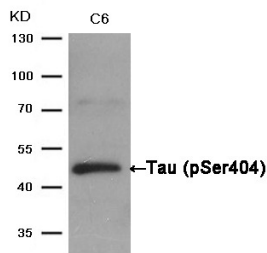
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies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

### Applications

#### Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded rat hippocampal region tissue from a model with Alzheimer.
2. Immunofluorescence staining of methanol-fixed Hela cells using Tau (Phospho-Ser404) Antibody TMAC-03980.
3. Western blot analysis of extracts from C6 cells, treated with calf intestinal phosphatase (CIP), using Tau (Phospho-Ser404) Antibody TMAC-03980.
4. Western blot analysis of extracts from C6 cells using Tau (Phospho-Ser404) Antibody TMAC-03980.





Application: IF,IHC,WB

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Peptide sequence around phosphorylation site of serine 404 (D-T-S(p)-P-R) derived from Human Tau

Antigen Species: human

Uniprot ID: P10636

Synonyms: p-MAPT (S404);MAPT (p-Ser404);MAPT (p-S404);p-MAPT (Ser404)

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### 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 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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