

## Anti-Phospho-Tau (S214) Rabbit Monoclonal Antibody Catalog # ABO16650

### Specification

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#### Anti-Phospho-Tau (S214) Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC
Primary Accession	<a href="#">P10636</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human, Mouse
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-Phospho-Tau (S214) Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human, Mouse.

#### Anti-Phospho-Tau (S214) Rabbit Monoclonal Antibody - Additional Information

Gene ID 4137

#### Other Names

Microtubule-associated protein tau, Neurofibrillary tangle protein, Paired helical filament-tau, PHF-tau, MAPT ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=6893](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=6893) target="\_blank">HGNC:6893</a>), MAPTL, MTBT1, TAU

#### Application Details

WB 1:500-1:2000<br>IHC 1:50-1:100

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human Phospho-Tau (S214)

#### Purification

Affinity-chromatography

#### Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

#### Anti-Phospho-Tau (S214) Rabbit Monoclonal Antibody - Protein Information

Name MAPT ([HGNC:6893](#))

Synonyms MAPTL, MTBT1, TAU

### Function

Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity (PubMed:<a href="http://www.uniprot.org/citations/21985311" target="\_blank">21985311</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/21985311" target="\_blank">21985311</a>, PubMed:<a href="http://www.uniprot.org/citations/32961270" target="\_blank">32961270</a>). 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.

### Cellular Location

Cytoplasm, cytosol. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton. Cell projection, axon. Cell projection, dendrite. Secreted Note=Mostly found in the axons of neurons, in the cytosol and in association with plasma membrane components (PubMed:10747907). Can be secreted; the secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm into the ERGIC (endoplasmic reticulum- Golgi intermediate compartment) followed by vesicle entry and secretion (PubMed:32272059).

### Tissue Location

Expressed in neurons. Isoform PNS-tau is expressed in the peripheral nervous system while the others are expressed in the central nervous system

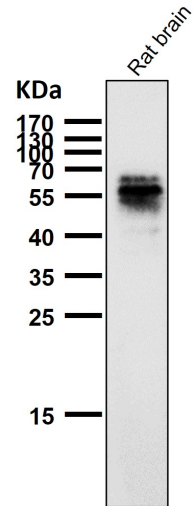
## Anti-Phospho-Tau (S214) Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

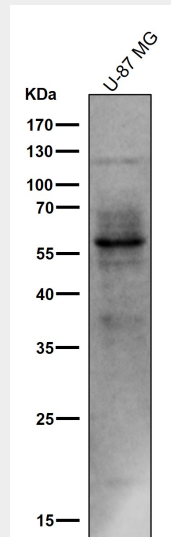
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Phospho-Tau (S214) Rabbit Monoclonal Antibody - Images

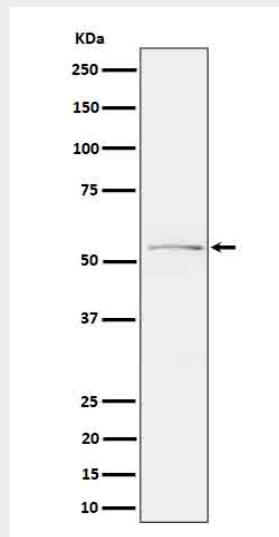




All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:1k dilution for 1 hour at room temperature.



Western blot analysis of Phospho-Tau (S214) expression in mouse cerebral cortex cell lysate.