

Anti-Tau MAPT Rabbit Monoclonal Antibody
Catalog # ABO13264**Specification****Anti-Tau MAPT Rabbit Monoclonal Antibody - Product Information**

Application	WB, IF, ICC, FC
Primary Accession	P10636
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-Tau MAPT Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-Tau MAPT 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 target="_blank">HGNC:6893), MAPTL, MTBT1, TAU

Calculated MW

78928 MW KDa

Application Details

WB 1:1000-1:2000
ICC/IF 1:50-1:200
FC 1:100

Subcellular Localization

Cytoplasm, cytosol. Cell membrane ; Peripheral membrane protein ; Cytoplasmic side. Cytoplasm, cytoskeleton. Cell projection, axon. Mostly found in the axons of neurons, in the cytosol and in association with plasma membrane components.

Tissue Specificity

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

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 Tau

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-Tau MAPT 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:[21985311](http://www.uniprot.org/citations/21985311)). 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:[21985311](http://www.uniprot.org/citations/21985311), PubMed:[32961270](http://www.uniprot.org/citations/32961270)). 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).

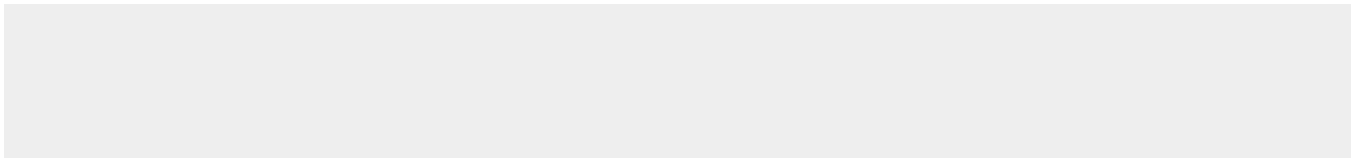
Tissue Location

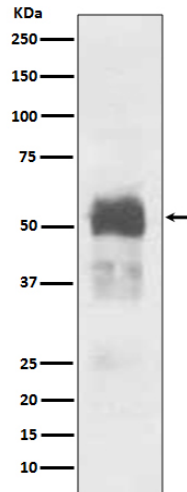
Expressed in neurons. Isoform PNS-tau is expressed in the peripheral nervous system while the others are expressed in the central nervous system

Anti-Tau MAPT Rabbit Monoclonal Antibody - Protocols

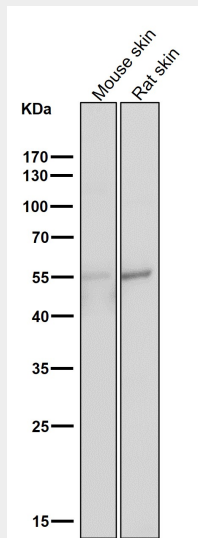
Provided below are standard protocols that you may find useful for product applications.

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

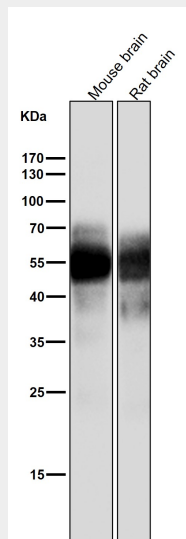
Anti-Tau MAPT Rabbit Monoclonal Antibody - Images



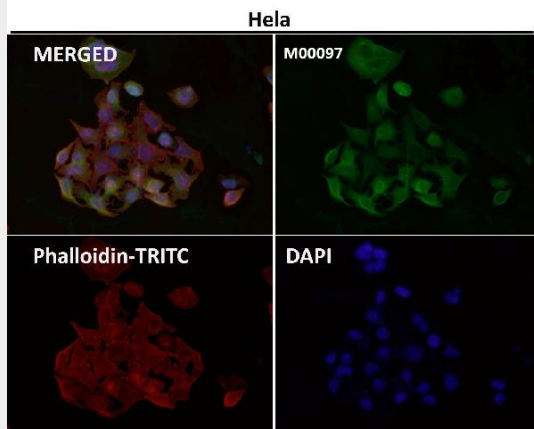
Western blot analysis of Tau expression in Mouse brain lysate.



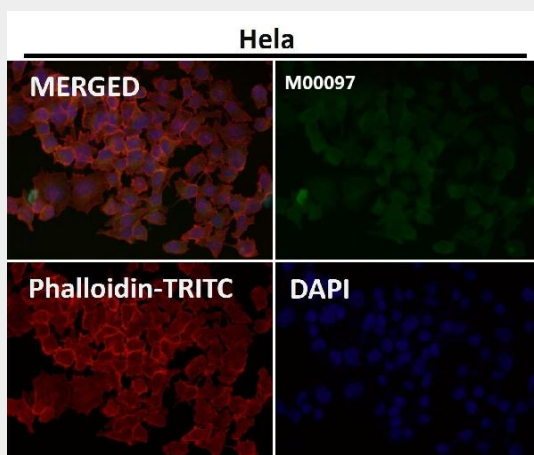
All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.



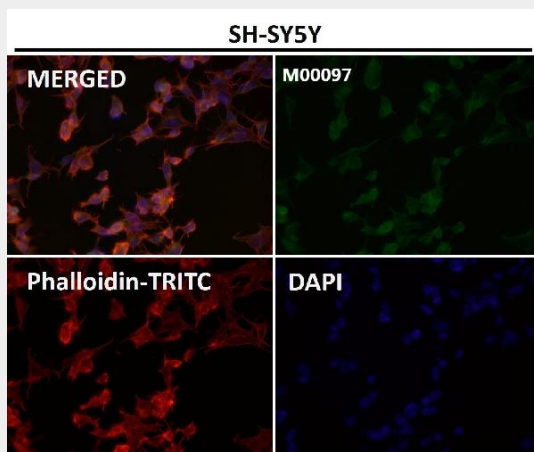
All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.



Immunofluorescent analysis using the Antibody at 1:50 dilution.

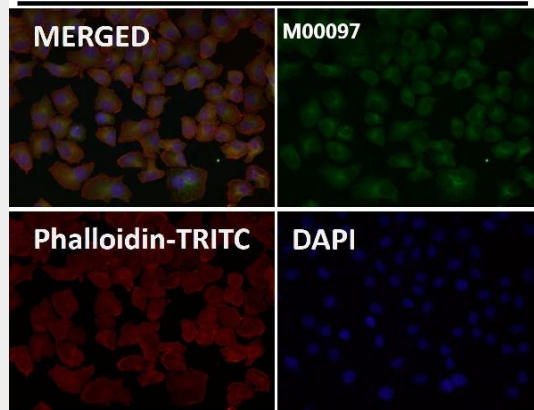


Immunofluorescent analysis using the Antibody at 1:150 dilution.



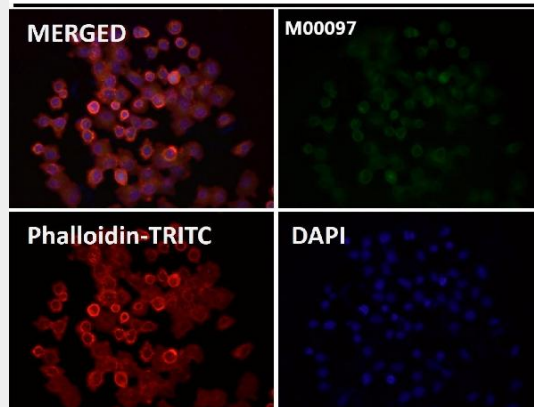
Immunofluorescent analysis using the Antibody at 1:150 dilution.

MCF-7

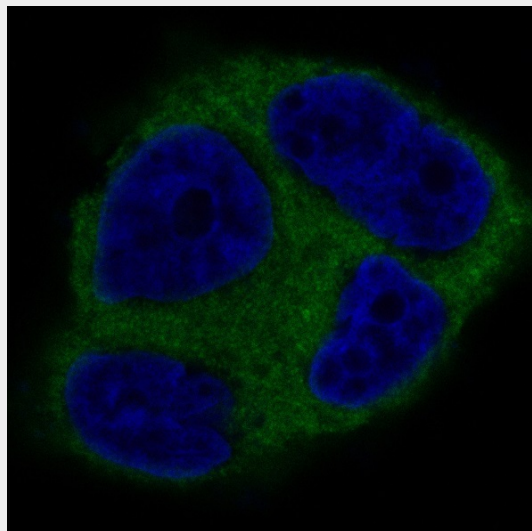


Immunofluorescent analysis using the Antibody at 1:50 dilution.

MCF-7



Immunofluorescent analysis using the Antibody at 1:150 dilution.



Immunofluorescent analysis of T-47D cells, using Tau Antibody.