

**Anti-MAPT / Tau Antibody (clone MCA-2E9)**  
**Mouse Anti Human Monoclonal Antibody**  
**Catalog # ALS17373****Specification**

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**Anti-MAPT / Tau Antibody (clone MCA-2E9) -  
Product Information**

Application	WB, IHC-P, IF, ICC
Primary Accession	<a href="#">P10636</a>
Predicted	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	78928

**Anti-MAPT / Tau Antibody (clone MCA-2E9) -  
Additional Information****Gene ID 4137**Alias Symbol **MAPT****Other Names**MAPT, FTDP-17, MSTD, Neurofibrillary  
tangle protein, PHF-tau, MTBT2, PPND,  
DDPAC, MAPTL, MTBT1, Paired helical  
filament-tau, TAU**Target/Specificity**Clone 2E9 is known to react with tau from  
human, mouse and rat. Since tau is highly  
conserved, it is likely that the antibody is  
effective on other species also.**Reconstitution & Storage**PBS, 10 mM sodium azide. +4°C or -20°C,  
Avoid repeated freezing and thawing.**Precautions**Anti-MAPT / Tau Antibody (clone MCA-2E9)  
is for research use only and not for use in  
diagnostic or therapeutic procedures.**Anti-MAPT / Tau Antibody (clone MCA-2E9) -  
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-MAPT / Tau Antibody (clone MCA-2E9)  
- 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](#)