

Anti-Phospho-MAPT (Ser214) Antibody (1K160)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	1K160
Purification:	Affinity-chromatography

Applications

Verified Activity:	IHC image of TMAH-00922 diluted at 1:100 and staining in paraffin-embedded human brain tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.12% DAB.
Application:	ELISA,IHC
Recommended	IHC:1:50-1:200.

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:	A synthetic peptide: Human MAPT
Antigen Species:	Human
Gene ID:	4137
Uniprot ID:	P10636
Synonyms:	Phospho-MAPT (S214);Microtubule-associated protein tau;MAPT (p-S214);Paired helical filament-tau;MAPT (p-Ser214);MTBT1;TAU and MAPT;Neurofibrillary tangle protein;MAPTL;p-MAPT (S214);p-MAPT (Ser214)
Biology Area:	Neuroscience, Signal transduction

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.

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