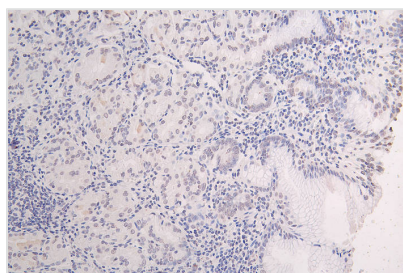




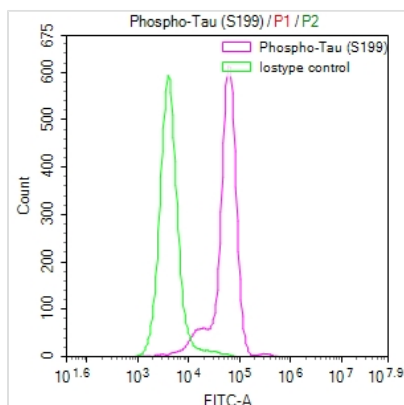
Phospho-MAPT (S199) Recombinant Monoclonal Antibody

Product Code	CSB-RA051594A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P10636
Immunogen	A synthesized peptide derived from Human MAPT
Species Reactivity	Human
Tested Applications	ELISA, IHC, FC; Recommended dilution: IHC:1:50-1:200, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience;Signal transduction
Gene Names	MAPT
Clone No.	23E8

Image



IHC image of CSB-RA051594A0HU diluted at 1:50 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 0.10% DAB.



Overlay Peak curve showing SH-SY5Y cells stained with CSB-RA051594A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1 μ g/1 \times 10⁶cells) for 45min at 4 $^{\circ}$ C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4 $^{\circ}$ C. Control antibody (green line) was rabbit IgG (1 μ g/1 \times 10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The phospho-MAPT (S199) recombinant monoclonal antibody expression typically involves the initial step of inserting the MAPT antibody-encoding gene into expression vectors. These vectors are then introduced into host cells using polyethyleneimine-mediated transfection. Culturing of the host cells leads to the production and secretion of the antibodies. Post-affinity chromatography purification, the antibodies' functionality is assessed through ELISA, IHC, and FC tests, confirming their capacity to recognize the human MAPT protein phosphorylated at S199.

MAPT phosphorylated at S199 is intimately involved in microtubule regulation, neuronal morphology, and its association with neurodegenerative diseases, particularly Alzheimer's disease and tauopathies.