

Anti-MAPT Antibody (5I591)

Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5I591
Purification:	Affinity-chromatography

Applications

Verified Activity:	Overlay Peak curve showing MCF7 cells stained with TMAH-00737 (red line) at 1:100. The cells were fixed in 4% formaldehyde (15min) and permeated by 0.2% TritonX-100 for 10min. Then 10% normal goat serum was incubated to block non-specific protein-protein interactions followed by the antibody (1 μ g/1*10 ⁶ cells) for 45 min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1 μ g/1*10 ⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.
Application:	ELISA, FCM
Recommended	FCM:1:20-1:500.

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:	Recombinant Protein: Human MAPT Protein
Antigen Species:	Human
Gene ID:	4137
Uniprot ID:	P10636
Synonyms:	Paired helical filament-tau;Microtubule-associated protein tau;Neurofibrillary tangle protein; MAPTL;MTBT1;TAU and MAPT
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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481