

Microtubule-associated protein tau Antibody

Mouse Monoclonal Antibody [Clone MAPT/443]

Catalog No	Format	Size
4137-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4137-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4137-MSM1-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

Clone	MAPT/443
Immunogen	Recombinant human MAPT protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	78.93kDa
Cellular Localization	Axon, Cell membrane, Cell projection, Cytoplasm, Cytoskeleton, Cytosol, Dendrite, Secreted
Species Reactivity	Human
Positive Control	Expressed in neurons

**Optimal dilution for a specific application should be determined.*

Product Images for Microtubule-associated protein tau Antibody

Specificity & Comments

Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity (PubMed: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, PubMed: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.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.