

Mouse monoclonal antibody to Microtubule-associated protein Tau [TAU-93]: IgG

Catalogue No.:	M-960-100
Description:	<p>FUNCTION: 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 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. SUBUNIT: Interacts with PSMC2 through Sequestosome 1 (SQSTM1). Interacts with SQSTM1 when polyubiquitinated. SUBCELLULAR LOCATION: Cytoplasm; cytosol. Cell membrane. Note=Mostly found in the axons of neurons, in the cytosol and in association with plasma membrane components. ALTERNATIVE PRODUCTS: 8 named isoforms produced by alternative splicing. Additional isoforms seem to exist. Isoforms differ from each other by the presence or absence of up to 5 of the 15 exons. One of these optional exons contains the additional tau/MAP repeat. TISSUE SPECIFICITY: Expressed in neurons. Isoform PNS-tau is expressed in the peripheral nervous system while the others are expressed in the central nervous system. DEVELOPMENTAL STAGE: Four-repeat (type II) tau is expressed in an adult-specific manner and is not found in fetal brain, whereas three-repeat (type I) tau is found in both adult and fetal brain. DOMAIN: The tau/MAP repeat binds to tubulin. Type I isoforms contain 3 repeats while type II isoforms contain 4 repeats.</p>
Batch No.:	See product label
Unit size:	100 ug
Antigen:	Bovine microtubule-associated proteins (MAPS)
Clone:	TAU-93
Other Names:	Neurofibrillary tangle protein; Paired helical filament-tau; PHF-tau; MAPT; MTBT1; TAU
Accession:	P29172 TAU_BOVIN; P10636 TAU_HUMAN
Produced in:	Mouse
Purity:	IgG
Applications:	Immunohistochemistry (IHC) and Western Blotting (WB). A concentration of 0.5-1.0 ug/mL is recommended for WB. A concentration of 1.0-2.0 ug/mL is recommended to detect Tau in formalin fixed and paraffin embedded tissues. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	The specificity of this antibody has been confirmed by WB and IHC against the antigen.
Cross-reactivity:	Human; mouse; rat
Form:	Lyophilized from 1.2% sodium acetate, 2mg BSA, 0.01mg NaN3
Storage:	Aliquot and store at -20C for higher stability. Avoid freeze-thaw cycles.
Expiry Date:	12 months after purchase

FOR RESEARCH USE ONLY



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51 West Thebarton Road • Thebarton • South Australia 5031
Telephone + 61(0)8 8352 7711 • Email sales@biosensis.com • www.biosensis.com