

DESCRIPTION

Specificity	Detects human Tau in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 376720
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Tau Gln624-Gln756 Accession # P10636
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Tau protein is named for its ability to serve as a bridge for microtubule formation and stabilization. Tau in PNS neurons is 758 amino acids (aa) in length and 110 kDa in size. It migrates anomalously in SDS-PAGE. Its N-terminus binds plasma membrane components while its C-terminus binds microtubules. The microtubule-binding region contains four consecutive Tau/MAP repeats between aa 561-685. Each repeat is 30 aa long, Ser/Thr rich, and shows a PGGG motif. Multiple isoforms exist, ranging from 316 to 776 aa in length. Various deletions occur within the first 500 aa, with some isoforms also showing an absence of the second Tau repeat (aa 592-622). Between aa 624-756, human Tau protein shows absolute identity to mouse and dog Tau.

PRODUCT SPECIFIC NOTICES

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