

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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

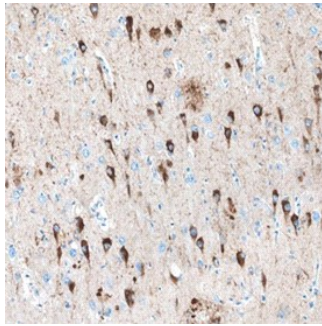
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Human Tau
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



Tau in Human Brain. Tau was detected in immersion fixed paraffin-embedded sections of human Alzheimer's brain using Mouse Anti-Tau Monoclonal Antibody (Catalog # MAB3494) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal cell bodies and processes. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.