NEUROMICS /



Tau (Tau46)

Data Sheet

Catalog Number: MO18002 Host: Mouse

Product Type: Protein G purified IgG1 Species Reactivity: Human; Rat; Human

Immunogen Native bovine tau and Format: Liquid in 10 mM sodium HEPES (pH 7.5),

Sequence: the epitope maps to the carboxy- terminus of the protein.

150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium

azide.

Applications Immunohistochemistry-1:800 (Paraffin)

Western Blotting-1:1000

Immunofluorescence-1:800 (Paraffin and Frozen)

Immunoprecipitation-1:50

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

References: Kosik, K.S. et al. (1988) Epitopes that span the tau molecule are shared with paired helical filaments.

Neuron 1, 817-825.

Mawal-Dewan, M. et al. (1994) The phosphorylation state of tau in the developing rat brain is

regulated by phosphoprotein phosphatases. J. Biol. Chem. 269, 30981–30987.

Storage: Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six

months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without

detectable loss of activity. Avoid repeated freeze-thaw cycles.

Application Notes

Specificity

Tau (Tau46) Mouse mAb detects endogenous levels of total tau protein and also cross-reacts with MAP2 at 280kD. Tau (Tau46) Mouse mAb is predicted to detect all six isoforms of tau based on the amino acid sequence.

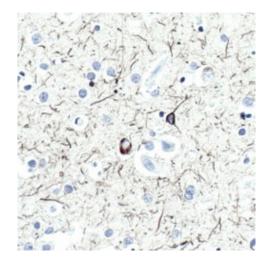
Description/Data:

Tau is a heterogeneous microtubule-associated protein that promotes and stabilizes microtubule assembly, especially in axons. Six isoforms with different amino-terminal inserts and different numbers of tandem repeats near the carboxy-terminus have been identified, and tau is hyperphosphorylated at approximately 25 sites by ERK, GSK-3 and CDK5. Phosphorylation decreases the ability of tau to bind to microtubules. Neurofibrillary tangles are a major hallmark of Alzheimer's disease and these tangles are bundles of paired helical filaments composed of hyperphosphorylated tau. In particular, phosphorylation of Ser396 by GSK-3 or CDK5 destabilizes microtubules in Alzheimer's disease. Furthermore, inclusions of tau are found in a number of other neurodegenerative diseases, collectively known as tauopathies.

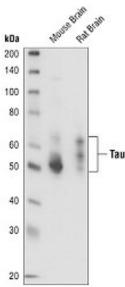
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IHC Image: Tau staining of paraffin-embedded Alzheimer's brain.



WB Image: Western blot analysis of extracts from mouse and rat brain.



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