46687 Store at -200

Tau (D1M9X) XP® Rabbit mAb



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Applications: WB, W-S, IHC-P, IF-F, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 50-80	Source/Isotype: Rabbit IgG	UniProt ID: #P10636-8	Entrez-Gene Id: 4137	
Product Usage Information	Aj	oplication		Dilution			
	W	estern Blotting		1:1000			
	Si	mple Western™		1:50 - 1:250			
	Im	munohistochemistry	(Paraffin)	1:300 - 1:1200			
	Im	munofluorescence (Frozen)	1:50 - 1:200			
	Im	munofluorescence (Immunocytochen	1:50 - 1:200			
Storage				7.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than	
Constituite / Constitu		For a carrier-free (BSA and azide free) version of this product see product #29384. Tau (D1M9X) XP [®] Rabbit mAb recognizes endogenous levels of total Tau protein.					
Specificity / Sensitivity		rau (DIMBA) AP - Rabbit MAb recognizes endogenous levels of total fau protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp430 of human Tau protein.					
Background	esp rep 25 abi (AC In p res	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, glycogen synthase kinase-3 (GSK-3), and CDK5 (1,2). Phosphorylation decreases the ability of tau to bind to microtubules. Neurofibrillary tangles are a major hallmark of Alzheimer's disease (AD); these tangles are bundles of paired helical filaments (PHFs) composed of hyperphosphorylated tau. In particular, phosphorylation at Ser396 by GSK-3 or CDK5 destabilizes microtubules. Furthermore, research studies have shown that inclusions of tau are found in a number of other neurodegenerative diseases, collectively known as tauopathies (1,3).					
Background Refere	2. H	 Johnson, G.V. and Stoothoff, W.H. (2004) J Cell Sci 117, 5721-9. Hanger, D.P. et al. (1998) J Neurochem 71, 2465-76. Bramblett, G.T. et al. (1993) Neuron 10, 1089-99. 					

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting W-S: Simple Western™ IHC-P: Immunohistochemistry (Paraffin) **Applications Key**

IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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