

46687

Tau (D1M9X) XP® Rabbit mAb



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Applications: W, 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		Application Dilution				tion
Information		Western Blotting			1:10	00
		Simple Western™			1:50	- 1:250
		Immunohistochemist	-		1:30	0 - 1:1200
		Immunofluorescence	(Frozen)		1:50	- 1:200
		Immunofluorescence	(Immunocytochem	istry)	1:50	- 1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier-free (BSA and azide free) version of this product see product #29384.				
Specificity/Sensitivity		Tau (D1M9X) XP [®] Rabbit mAb recognizes endogenous levels of total Tau protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp430 of human Tau protein isoform 8.				
Background		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 References		1. Johnson, G.V. and Stoothoff, W.H. (2004) <i>J Cell Sci</i> 117, 5721-9. 2. Hanger, D.P. et al. (1998) <i>J Neurochem</i> 71, 2465-76. 3. Bramblett, G.T. et al. (1993) <i>Neuron</i> 10, 1089-99.				
Species Reactiv	rity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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.				
Applications Ke	ey	W: Western Blotting W-S: Simple Western [™] IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)				

Cross-Reactivity Key H: Human M: Mouse R: Rat

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