Phospho-Tau (Ser396) (PHF13) Mouse mAb

force or effect.



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Applications: W	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 50-80	Source/Isotype: Mouse IgG2b	UniProt ID: #P10636-8	Entrez-Gene Id: 4137
Product Usage Information	e	Application Western Blotting			Dilution 1:1000	
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.				
Specificity/Sensitivity		Phospho-Tau (Ser396) (PHF13) Mouse mAb detects endogenous levels of Tau only when phosphorylated at serine 396.				
Species prediction based on 100% homology	ted to react 6 sequence	Human				
Source / Purification		Monoclonal antibody is produced by immunizing animals with human purified Tau (Hoffmann et al., 1997).				
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 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		M: Mouse R: Rat				
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