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Phospho-Tau (Ser404) (D2Z4G) Rabbit mAb



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Applications: R WB, IHC-P	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	Арј	olication			D	ilution		
mormation	We	stern Blotting			1	1:1000		
	Imn	nunohistochemistry	(Paraffin)		1	:400		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
	For a	For a carrier-free (BSA and azide free) version of this product see product #49562.						
Specificity / Sensitivi	phos Ser4 not c	Phospho-Tau (Ser404) (D2Z4G) Rabbit mAb recognizes endogenous levels of tau protein when phosphorylated at Ser404. This antibody detects single phosphorylation at Ser404, dual phosphorylation at Ser400/Ser404 or Thr403/Ser404, and triple phosphorylation at Ser400/Thr403/Ser404. This antibody does not detect peptides with single phosphorylation at Ser400 or Thr403, and dual phosphorylation at Ser400/Thr403.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser400/Thr403/Ser404 of human tau protein.						
Background	espe repe 25 s abilit (AD) In pa rese dise	ecially in axons. Six ats near the carbox ites by Erk, glycoge y of tau to bind to m ; these tangles are articular, phosphoryl arch studies have s ases, collectively kn	isoforms with dif y terminus have n synthase kinas nicrotubules. Neu bundles of paired ation at Ser396 I hown that inclusi own as tauopath	ociated protein that pron ferent amino-terminal ins been identified, and tau se-3 (GSK-3), and CDK5 urofibrillary tangles are a d helical filaments (PHFs by GSK-3 or CDK5 desta ions of tau are found in a hies (1,3).	serts and different nur is hyperphosphorylate (1,2). Phosphorylatio major hallmark of Alz composed of hyper abilizes microtubules. a number of other neu	nbers of tandem ed at approximately n decreases the heimer's disease phosphorylated tau. Furthermore, rodegenerative		
Background Referen	hype CES 1. Jo 2. Ha 3. Br 4. Sh 5. Ev	erphosphorylated at	Ser404 in Alzhei bothoff, W.H. (20 998) J Neurocher (1993) Neuron 10 996) Brain Res 7 00) J Biol Chem	imer's disease (2,4-6). 104) <i>J Cell Sci</i> 117, 5721 m 71, 2465-76. 0, 1089-99. 737, 119-32. 275, 24977-83.				
Species Reactivity	Spec	es reactivity is dete	rmined by testing	g in at least one approve	d application (e.g., we	estern blot).		
Western Blot Buffer				membrane with diluted th gentle shaking, overn		∕6 w/v nonfat dry		
Applications Key	WB:	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivity Key	X: Xe		B: bovine Dg: de	Mk: monkey Vir: virus N og Pg: pig Sc: S. cerevis es expected		-		

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