PhosphoPlus [®] Tau (Thr181) Antibody Duet					
Stor				Orders:	877-616-CELL (2355) orders@cellsignal.com
				Support:	877-678-TECH (8324)
149				Web:	info@cellsignal.com cellsignal.com
			3 Trask L	ane Danvers	Massachusetts 01923 USA
	z-Gene Id:	res.			
#P10636-8 4	4137				
Product Includes		Product #	Quantity	Mol. Wt.	Isotype/Source
Phospho-Tau (Thr181) (D9F4G) Rab	bit mAb	12885	100 µl	50-80 kDa	Rabbit IgG
Tau (D1M9X) XP® Rabbit mAb		46687	100 µl	50-80 kDa	Rabbit IgG
Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.					
Description	PhosphoPlus [®] Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.				
Storage	Supplied in 10 mM sodium F 0.02% sodium azide. Store a	u 7.			glycerol and less than
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).				
	The cerebrospinal fluid conc biomarker for the study of ne			hr181 has been	proposed to be a
Background References	 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. Mitchell, A.J. (2009) J Neurol Neurosurg Psychiatry 80, 966-75. 				
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