g GSK-3α/β (D75D3) Rabbit mAb





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Applications: W, W-S, IP	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 51, 46	Source/Isotype: Rabbit IgG	UniProt ID: #P49840, #P49841	Entrez-Gene Id: 2931, 2932		
Product Usage Information	e	Application Western Blotting Simple Western™ Immunoprecipitation			Dilution 1:1000 1:10 - 1:50 1:50			
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		GSK-3α/β (D75D3) XP [®] Rabbit mAb detects endogenous levels of total GSK-3α and GSK-3β. The peptide sequence used as the antigen is 100% conserved between GSK-3α and GSK-3β in humans, monkeys, mice and rats.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Gln269 of human GSK-3α protein.						
synthesis in resp that phosphoryl PI3K/Akt cell sur Ser21 of GSK-3α <i>Dictyostelium</i> at mammalian dev localization (5). GSK-3α regulate accumulate with lithium, a GSK-3 amyloid precurs			e kinase-3 (GSK-3) was initially identified as an enzyme that regulates glycogen nse to insulin (1). GSK-3 is a ubiquitously expressed serine/threonine protein kinase es and inactivates glycogen synthase. GSK-3 is a critical downstream element of the val pathway whose activity can be inhibited by Akt-mediated phosphorylation at nd Ser9 of GSK-3β (2,3). GSK-3 has been implicated in the regulation of cell fate in is a component of the Wnt signaling pathway required for <i>Drosophila, Xenopus,</i> and opment (4). GSK-3 has been shown to regulate cyclin D1 proteolysis and subcellular the production of amyloid-β peptides, a major component of the plaques that progression of Alzheimer disease. Administration of therapeutic concentrations of hibitor, attenuates amyloid-β production by specifically inhibiting the cleavage of protein (APP) by γ-secretase, blocking accumulation of amyloid-β peptides in the t overproduce APP (6).					
Background References		1. Welsh, G.I. et al. (1996) <i>Trends Cell Biol</i> 6, 274-9. 2. Srivastava, A.K. and Pandey, S.K. (1998) <i>Mol Cell Biochem</i> 182, 135-41. 3. Cross, D.A. et al. (1995) <i>Nature</i> 378, 785-9. 4. Nusse, R. (1997) <i>Cell</i> 89, 321-3. 5. Diehl, J.A. et al. (1998) <i>Genes Dev</i> 12, 3499-511. 6. Phiel, C.J. et al. (2003) <i>Nature</i> 423, 435-9.						
Species React	ivity	Species reactivity is de	termined by testing	g in at least one approv	ved application (e.g., w	vestern 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 Key		W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation						
Cross-Reactivity Key H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey								
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