

Phospho-GSK-3β (Ser9) (D85E12) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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Applications: FC-FP	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P49841	Entrez-Gene Id: 2932		
Product Usage Information		Application Flow Cytometry (Fixed/Permeabilized)			Dilution 1:50		
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.					
Specificity/Sensitivity		Phospho-GSK-3β (Ser9) (D85E12) XP [®] Rabbit mAb (Alexa Fluor [®] 488 Conjugate) detects endogenous levels of GSK-3β only when phosphorylated at Ser9.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser9 of human GSK-3β.					
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-GSK-3β (Ser9) (D85E12) XP [®] Rabbit mAb #5558.					
Background		Glycogen synthase kinase-3 (GSK-3) was initially identified as an enzyme that regulates glycogen synthesis in response to insulin (1). GSK-3 is a ubiquitously expressed serine/threonine protein kinase that phosphorylates and inactivates glycogen synthase. GSK-3 is a critical downstream element of the PI3K/Akt cell survival pathway whose activity can be inhibited by Akt-mediated phosphorylation at Ser21 of GSK-3 α and Ser9 of GSK-3 β (2,3). GSK-3 has been implicated in the regulation of cell fate in <i>Dictyostelium</i> and is a component of the Wnt signaling pathway required for <i>Drosophila, Xenopus,</i> and mammalian development (4). GSK-3 has been shown to regulate cyclin D1 proteolysis and subcellular localization (5).					
Background Refe	erences	 Welsh, G.I. et al. (1996) <i>Trends Cell Biol</i> 6, 274-9. Srivastava, A.K. and Pandey, S.K. (1998) <i>Mol Cell Biochem</i> 182, 135-41. Cross, D.A. et al. (1995) <i>Nature</i> 378, 785-9. Nusse, R. (1997) <i>Cell</i> 89, 321-3. Diehl, J.A. et al. (1998) <i>Genes Dev</i> 12, 3499-511. 					
Species Reactivit	y	Species reactivity is deter	rmined by testing in at lea	ast one approved ap	plication (e.g., western blot).		
Applications Key FC-		FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity	Key	H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey					
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