

#14310 Store at +4C

Phospho-GSK-3 β (Ser9) (D85E12) XP[®] Rabbit mAb (Pacific Blue[™] Conjugate)


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H M R Hm	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P49841	Entrez-Gene Id: 2932
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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. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i>	
Specificity / Sensitivity	Phospho-GSK-3 β (Ser9) (D85E12) XP [®] Rabbit mAb (Pacific Blue [™] Conjugate) detects endogenous levels of GSK-3 β only when phosphorylated at Ser9. This antibody reacts with denatured components of bovine serum, including BSA.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser9 of human GSK-3 β .	
Product Description	This Cell Signaling Technology antibody is conjugated to Pacific Blue [™] fluorescent dye and tested in-house for direct flow cytometry in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated antibody Phospho-GSK-3 β (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</i> , <i>Xenopus</i> , and mammalian development (4). GSK-3 has been shown to regulate cyclin D1 proteolysis and subcellular localization (5).	
Background References	<ol style="list-style-type: none"> 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. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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