Store at -20C

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PhosphoPlus[®] GSK-3β (Ser9) Antibody Duet



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

UniProt ID: #P49841	Entrez-Gene Id: 2932					
Product Includes		Product #	Quantity	Mol. Wt.	Isotype/Source	
Phospho-GSK-38 (Ser9)	(D85E12) XP® Rabbit mAb	5558	100 ul	46 kDa	Rabbit IgG	

Floduct Includes	Product #	Quantity		isotype/source
Phospho-GSK-3β (Ser9) (D85E12) XP® Rabbit mAb	5558	100 µl	46 kDa	Rabbit IgG
GSK-3β (D5C5Z) XP® Rabbit mAb	12456	100 µl	46 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 HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody</i> .
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 References	 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.
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