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Phospho-GSK-3β (Ser9) (D85E12) XP<sup>®</sup> Rabbit mAb (Alexa Fluor<sup>®</sup> 488 Conjugate)



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

Applications: Rea	c <b>tivity: Sensitivity: Source/Isotype:</b> R Hm Endogenous Rabbit IgG	UniProt ID:Entrez-Gene Id:#P498412932
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 n antibody. Protect from light. Do not freeze.	ng/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	Phospho-GSK-3 $\beta$ (Ser9) (D85E12) XP <sup>®</sup> Rabbit mAb (Alexa Flu levels of GSK-3 $\beta$ only when phosphorylated at Ser9.	ior <sup>®</sup> 488 Conjugate) detects endogenous
Source / Purification	Monoclonal antibody is produced by immunizing animals with a residues surrounding Ser9 of human GSK-3β.	synthetic phosphopeptide corresponding to
Product Description	This Cell Signaling Technology antibody is conjugated to Alexa house for direct flow cytometric analysis in human cells. This ar species cross-reactivity as the unconjugated Phospho-GSK-3 $\beta$	ntibody is expected to exhibit the same
Background	Glycogen synthase kinase-3 (GSK-3) was initially identified as a synthesis in response to insulin (1). GSK-3 is a ubiquitously exp phosphorylates and inactivates glycogen synthase. GSK-3 is a cell survival pathway whose activity can be inhibited by Akt-med and Ser9 of GSK-3 $\beta$ (2,3). GSK-3 has been implicated in the re a component of the Wnt signaling pathway required for <i>Drosopl</i> development (4). GSK-3 has been shown to regulate cyclin D1	pressed serine/threonine protein kinase that critical downstream element of the PI3K/Akt diated phosphorylation at Ser21 of GSK-3α egulation of cell fate in <i>Dictyostelium</i> and is <i>hila, Xenopus</i> , and mammalian
Background Reference	<ol> <li>Welsh, G.I. et al. (1996) <i>Trends Cell Biol</i> 6, 274-9.</li> <li>Srivastava, A.K. and Pandey, S.K. (1998) <i>Mol Cell Biochem</i> 182, 135-41.</li> <li>Cross, D.A. et al. (1995) <i>Nature</i> 378, 785-9.</li> <li>Nusse, R. (1997) <i>Cell</i> 89, 321-3.</li> <li>Diehl, J.A. et al. (1998) <i>Genes Dev</i> 12, 3499-511.</li> </ol>	
Species Reactivity	Species reactivity is determined by testing in at least one approv	ved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerev</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>	
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