e at -20C	GSK-3β (3D10) Mouse mAb		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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Applications: React WB, IP, IF-IC, FC-FP H M R		Sensitivity: Endogenous	MW (kDa): 46	Source/Isotype: Mouse IgG2a	UniProt ID: #P49841	Entrez-Gene Id: 2932		
Product Usage Information	lmmun Immun	rn Blotting oprecipitation ofluorescence ((Immunocytocher J/Permeabilized)	nistry)		Dilution 1:1000 1:50 1:250 1:800		
Storage	Supplie 0.02% s	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sensitivity	GSK-3β	For a carrier free (BSA and azide free) version of this product see product #46835. GSK-3β (3D10) Mouse mAb recognizes endogenous levels of total GSK-3β protein. This antibody does not cross-react with GSK-3α.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy-terminus of human GSK-3 β protein.						
Background Background References	synthes phospho cell surv and Ser a compo develop 1. Welsl 2. Sriva 3. Cross 4. Nuss	 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-3α and Ser9 of GSK-3β (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). 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 det	ermined by testin	g in at least one approve	ed application (e.g., v	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		WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity Key	X: Xenop	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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