#9323 Store at -200

Phospho-GSK-3β (Ser9) (5B3) Rabbit mAb



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Applications: WB, IHC-P, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 46	Source/Isotype: Rabbit IgG	UniProt ID: #P49841	Entrez-Gene Id: 2932	
Product Usage Information	Ap	Application				Dilution	
	We	stern Blotting				1:1000	
	lmı	nunohistochemistry	(Paraffin)			1:50	
	lmı	munofluorescence (Immunocytochen	nistry)		1:100	
Storage	•	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.					
	For	For a carrier free (BSA and azide free) version of this product see product #25462.					
Specificity / Sensiti	pho	spho-GSK-3β (Ser sphorylated at Ser9 to high sequence h	•				
Source / Purification	•	noclonal antibody is dues around Ser9 o	synthetic phosphopep	otide corresponding to			
Background	synt pho cell and a co	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 Refere	2. S 3. C 4. N	 Welsh, G.I. et al. (1996) Trends Cell Biol 6, 274-9. Srivastava, A.K. and Pandey, S.K. (1998) Mol Cell Biochem 182, 135-41. Cross, D.A. et al. (1995) Nature 378, 785-9. Nusse, R. (1997) Cell 89, 321-3. Diehl, J.A. et al. (1998) Genes Dev 12, 3499-511. 					

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western 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 IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry)

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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