#5558 Store at -20C

Phospho-GSK-3 β (Ser9) (D85E12) XP^{\otimes} Rabbit mAb



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Applications: WB, W-S, IP, IF-IC, FC- FP	Reactivity: H M R Hm	Sensitivity: Endogenous	MW (kDa): 46	Source/Isotype: Rabbit IgG	UniProt ID: #P49841	Entrez-Gene Id 2932	
Product Usage Information	A	pplication		Dilution			
	W	estern Blotting		1:1000			
	S	mple Western™		1:50 - 1:250			
	In	nmunoprecipitation		1:50			
	In	nmunofluorescence (Immunocytochen	1:200 - 1:800			
	F	ow Cytometry (Fixed	/Permeabilized)	1:100 - 1:400			
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.					
	Fo	For a carrier free (BSA and azide free) version of this product see product #79774.					
Specificity / Sensitivity		Phospho-GSK-3 β (Ser9) (D85E12) XP [®] Rabbit mAb detects endogenous levels of GSK-3 β only when phosphorylated at Ser9. This antibody reacts with denatured components of bovine serum, including BSA.					
Source / Purificati	ource / Purification Monoclonal antibody is produced by immunizing animals with a residues surrounding Ser9 of human GSK-3β.				a synthetic phosphopeptide corresponding to		
Background	sy ph ce an a c	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</i> , <i>Xenopus</i> , and mammalian development (4). GSK-3 has been shown to regulate cyclin D1 proteolysis and subcellular localization (5).					
Background Refer	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> 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).

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 W-S: Simple Western™ IP: Immunoprecipitation

IF-IC: Immunofluorescence (Immunocytochemistry) 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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