Store at -20C

9331

Phospho-GSK-3α/β (Ser21/9) Antibody

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

Applications: WB	Reactivity: H M R Mk Z	Sensitivity: Endogenous	MW (kDa): 46 GSK-3beta. 51 GSK-3alpha.	Source: Rabbit	UniProt ID: #P49840, #P49841	Entrez-Gene Id: 2931, 2932		
Product Usage Information		plication stern Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitiv		Phospho-GSK-3alpha/beta (Ser21/9) Antibody detects endogenous levels of GSK-3 only when phosphorylated at serine 21 of GSK-3alpha or serine 9 of GSK-3beta.						
Source / Purification	to the	Polyclonal antibodies are produced by immunizing animals with synthetic phosphopeptides corresponding to the sequences of human GSK-3 alpha and beta. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	synth phos cell s and a cor	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 Refere	2. Sr 3. Cr 4. Nt 5. Di	ivastava, A.K. and oss, D.A. et al. (19 usse, R. (1997) Ce ehl, J.A. et al. (199	96) Trends Cell Biol 6 Pandey, S.K. (1998) 995) Nature 378, 785- 11 89, 321-3. 98) Genes Dev 12, 34 A. (2015) Transl Psyc.	Mol Cell Biocher 9. 99-511.	n 182, 135-41.			
Species Reactivity	Speci	es reactivity is det	ermined by testing in	at least one app	roved application (e.g., wes	tern 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						
Cross-Reactivity Ke	X: Xe	nopus Z: zebrafisl		'g: pig Sc: S. ce	us Mi: mink C: chicken Dm revisiae Ce: C. elegans Hr:			
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