3438

Phospho-PDK1 (Ser241) (C49H2) Rabbit mAb



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 58 to 68	Source/Isotype: Rabbit IgG	UniProt ID: #O15530	Entrez-Gene Id: 5170		
Product Usage Information Storage	2	Application Western Blotting Immunoprecipitation Supplied in 10 mM soo	dium HEPES (pH 7.5	5). 150 mM NaCl. 100 μα	Dilution 1:1000 1:50 /ml BSA, 50% glycer	ol and less than		
5.5. age		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Ser	-	Phospho-PDK1 (Ser241) (C49H2) Rabbit mAb detects PDK1 only when phosphorylated at Ser241.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Ser241 of human PDK1.						
Background		Phosphoinositide-dependent protein kinase 1 (PDK1) plays a central role in many signal transduction pathways (1,2) including the activation of Akt and the PKC isoenzymes p70 S6 kinase and RSK (3). Through its effects on these kinases, PDK1 is involved in the regulation of a wide variety of processes, including cell proliferation, differentiation and apoptosis. Several serine sites (Ser25, Ser241, Ser393/396 and Ser410) are phosphorylated on PDK1 in unstimulated human embryo kidney 293 cells, as well as IGF-1 stimulated cells (4). Phosphorylation on the activation loop Ser241 by autophosphorylation is necessary for PDK1 activity (4).						
Background R	eferences	1. Belham, C. et al. (1999) <i>Curr. Biol.</i> 9, R93-R96. 2. Toker, A. and Newton, A.C. (2000) <i>Cell</i> 103, 185-188. 3. Williams, M.R. et al. (2000) <i>Curr. Biol.</i> 10, 439-448. 4. Casamayor, A. et al. (1999) <i>Biochem J</i> 342 (Pt 2), 287-92.						
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	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 K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human M: Mouse F	R: Rat					
Trademarks aı	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		U.S. Patent No. 7,429,4	487, foreign equiva	lents, and child patents	deriving therefrom.			
		All other trademarks a more information.	are the property of	their respective owners.	Visit cellsignal.com	/trademarks for		
Limited Uses		the following terms an terms and conditions	oply to Products pro that are in addition	greed in a writing signed by a legally authorized representative of CST, ducts provided by CST, its affiliates or its distributors. Any Customer's addition to, or different from, those contained herein, unless y a legally authorized representative of CST, are rejected and are of no				
		approved, cleared, or purpose. Customer sh any manner that confl Customer as the end-u	licensed by the FDA all not use any Pro licts with its labeling user and solely for	se Only or a similar labe or other regulatory for duct for any diagnostic o g statement. Products so research and developme urposes, or any purchase	eign or domestic er or therapeutic purp old or licensed by C ent uses. Any use of	itity, for any ose, or otherwise in ST are provided for Product for		

component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.