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## Phospho-PDK1 (Ser241) (C49H2) Rabbit mAb



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Applications: W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 58 to 68	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O15530	Entrez-Gene Id: 5170		
Product Usage Information Storage	2	<b>Application</b> Western Blotting Immunoprecipitation Supplied in 10 mM soo	dium HEPES (pH 7.5	5). 150 mM NaCl. 100 μα	<b>Dilution</b> 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	<b>R:</b> Rat					
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