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Phospho-PDK1 (Ser241) (C49H2) Rabbit mAb



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB, 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	Ap	plication		Dilution		
	We	estern Blotting		1:1000		
	lmı	munoprecipitation		1:50		
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.				
Specificity / Sens	sitivity Pho	Phospho-PDK1 (Ser241) (C49H2) Rabbit mAb detects PDK1 only when phosphorylated at Ser241.				
Source / Purifica	Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunicing animals with a synthetic phosphopeptide correspondence of the produced by immunicing animals with a synthetic phosphopeptide correspondence of the produced by immunicing animals with a synthetic phosphopeptide correspondence of the produced by immunicing animals with a synthetic phosphopeptide correspondence of the produced by immunicing animals with a synthetic phosphopeptide correspondence of the produced by immunicing animals with a synthetic phosphopeptide correspondence of the produced by immunicing animals with a synthetic phosphopeptide correspondence of the produced by immunicing animals with a synthetic phosphopeptide correspondence of the produced by immunicing animals with a synthetic phosphopeptide correspondence of the produced by immunicing animals with a synthetic phosphopeptide correspondence of the produced by the produc					tide corresponding to
Background	path Thro inclu Sev uns	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 Ref	2. To 3. W	 Belham, C. et al. (1999) Curr. Biol. 9, R93-R96. Toker, A. and Newton, A.C. (2000) Cell 103, 185-188. Williams, M.R. et al. (2000) Curr. Biol. 10, 439-448. Casamayor, A. et al. (1999) Biochem J 342 (Pt 2), 287-92. 				

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 **IP:** Immunoprecipitation

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

A: Actiopus 2: Zebraisii B: bovine bg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: noise

GP: Guinea Pig Rab: rabbit All: all species expected

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