#3061 Store at -20C

## Phospho-PDK1 (Ser241) Antibody



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

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 58-68	Source: Rabbit	UniProt ID: #O15530	Entrez-Gene Id: 5170	
Product Usage Information	Ap	plication		Dilution			
	We	estern Blotting		1:1000			
	Imr	munoprecipitation		1:100			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	<b>vity</b> Pho	Phospho-PDK1 (Ser241) Antibody detects PDK1 only when phosphorylated at Ser241.					
Source / Purification	to re		, ,	•	h a synthetic phosphope re purified by protein A a		
Background	path Thro	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.					
	unst	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 Refere	2. To 3. W	elham, C. et al. (199 oker, A. and Newton /illiams, M.R. et al. ( asamayor, A. et al. (	, Á.C. (2000) <i>Cell 1</i> (2000) <i>Curr. Biol.</i> 10	.03, 185-188. ), 439-448.			

**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

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

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