Store at -200

Phospho-PKD/PKCµ (Ser916) Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

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cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 115	Source: Rabbit	UniProt ID: #Q15139	Entrez-Gene Id: 5587	
Product Usage Information	Ap	Application			Dilution		
	We	Western Blotting			1:1000		
	Im	munoprecipitation		1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sens		Phospho-PKD/PKC mu (Ser916) Antibody detects endogenous levels of PKD1/PKC mu only when phosphorylated at serine 916. The antibody may also cross-react with isoform PKD2, in some species.					
Source / Purificat	to re	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser916 of mouse PKD. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	as s call acti two	Activation of PKC is one of the earliest events in a cascade leading to a variety of cellular responses, such as secretion, gene expression, proliferation, and muscle contraction (1,2). Protein kinase D (PKD), also called PKCµ, is a serine/threonine kinase whose activation is dependent on the phosphorylation of two activation loop sites, Ser744 and Ser748, via a PKC-dependent signaling pathway (3-5). In addition to the two activation loop sites, the carboxy-terminal Ser916 has been identified as an autophosphorylation site for PKD/PKCµ. Phosphorylation at Ser916 correlates with PKD/PKCµ catalytic activity (6).					
Background Refe	 kground References Nishizuka, Y. (1984) Nature 308, 693-698. Keranen, L.M. (1995) Curr. Biol. 5, 1394-1403. Valverde, A.M. et al. (1994) Proc. Natl. Acad. Sci. 91, 8572-8576. Johannes, F.J. et al. (1994) J. Biol. Chem. 269, 6140-6148. Iglesias, T. et al. (1998) J. Biol. Chem. 273, 27662-27667. Matthews, S.A. et al. (1999) J. Biol. Chem. 274, 26543-26549. 						

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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