2051

Phospho-PKD/PKCμ (Ser916) Antibody



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 115	Source/Isotype: Rabbit	UniProt ID: #Q15139	Entrez-Gene Id: 5587
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 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/Sensitivity		Phospho-PKD/PKC mu (Ser916) Antibody detects endogenous levels of PKD1/PKC mu only when phosphorylated at serine 916. Ths antibody may also cross-react with isoform PKD2, in some species.				
Source / Purification		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		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 References		 Nishizuka, Y. (1984) <i>Nature</i> 308, 693-698. Keranen, L.M. (1995) <i>Curr. Biol.</i> 5, 1394-1403. Valverde, A.M. et al. (1994) <i>Proc. Natl. Acad. Sci.</i> 91, 8572-8576. Johannes, F.J. et al. (1994) <i>J. Biol. Chem.</i> 269, 6140-6148. Iglesias, T. et al. (1998) <i>J. Biol. Chem.</i> 273, 27662-27667. Matthews, S.A. et al. (1999) <i>J. Biol. Chem.</i> 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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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