

4381

Phospho-(Ser/Thr) PKD Substrate Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures

Applications: W, E-P	Reactivity: All	Sensitivity: Endogenous	Source/Isotype: Rabbit
Product Usage Information		Application Western Blotting Peptide ELISA (DELFIA)	Dilution 1:1000 1:1000
Storage		Supplied in 10 mM sodium 20°C. Do not aliquot the a	n HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – antibody.
Specificity/Sensitivity		Phospho-(Ser/Thr) PKD Substrates Antibody detects peptides and proteins containing a phospho-Ser/Thr residue with arginine at the -3 position and leucine at the -5 position, prefering proline at the -7 position within the motif. The antibody may cross-react with some peptides and proteins containing an arginine residue at -3 position and a hydrophobic or basic residue at the -5 position. (U.S. Patent No's.: 6,441,140; 6,982,318; 7,259,022; 7,344,714; U.S.S.N. 11,484,485; and all foreign equivalents.)	
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phospho-PKD substrate peptide. Antibodies are purified by protein A and peptide affinity chromatography.	
Background		Protein kinase D1 (PKD1), also called PKCµ, is one member of the protein kinase D family. PKD members are serine/threonine protein kinases implicated in very diverse cellular functions including cell growth and survival, Golgi organization and immune response (1). The information about the natural substrates of PKD is limited (2,3). The enzyme recognizes and phosphorylates the following consensus sequence: LXRXXS/T. Phospho-(Ser/Thr) PKD Substrate Antibody recognizes phosphorylated PKD substrates at their consensus motif, providing a powerful new tool for PKD target discovery and characterization as well as HTS drug screening for potential kinase regulators.	
Background References			BS Lett 546, 81-6. 97) J Biol Chem 272, 952-60. J Biol Chem 275, 40048-56.
Species Reactivity		Species reactivity is determ	mined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer			blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X ¹ °C with gentle shaking, overnight.
Applications Key		W: Western Blotting E-P: Peptide ELISA (DELFIA)	
Cross-Reactivity Key		All: All Species Expected	
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