1/1/24, 9:08 AM Revision 1

Phospho-(Ser) Antibody 1927 For Research Use Only. Not for U	Jse in Diagnostic Procedures.	Si W 3 Trask Lane I	Cell Signaling TECHNOLOGY* rders: 877-616-CELL (2355) orders@cellsignal.com upport: 877-678-TECH (8324) /eb: info@cellsignal.com cellsignal.com Danvers Massachusetts 01923 USA
Applications: Reactiv WB, IP, E-P All	ity: Sensitivity: Sourc Endogenous Rabbi		
Product Usage Information	Application Western Blotting Immunoprecipitation Peptide ELISA (DELFIA)		Dilution 1:1000 1:25 1:500
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliguot the antibody.		
Specificity / Sensitivity	Phospho-(Ser) PKC Substrate Antibody recognizes endogenous levels of many cellular proteins only when phosphorylated at serine residues surrounded by Arg or Lys at the -2 and +2 positions and a hydrophobic residue at the +1 position. The antibody does not cross-react with nonphosphorylated serine residues, with phospho-threonine in the same motif, or with phospho-serine in other motifs.		
Source / Purification	Polyclonal antibodies are produced by immunizing animals with synthetic phospho-PKC substrate peptides. Antibodies are purified by protein A and peptide affinity chromatography.		
Background Background References	 Although protein kinase C (PKC) family members are involved in a number of signal transduction processes including secretion, gene expression, proliferation, and muscle contraction, many PKC substrates continue to be unidentified (1,2). Isozymes of PKC are subdivided into conventional PKCs (cPKC), novel PKCs (nPKC), and atypical PKCs (aPKC). PKCα, βI, βII, and γ isoforms belong to the cPKC group (1). When activated, cPKC isozymes phosphorylate substrates containing Ser or Thr, with Arg or Lys at the -3, -2, and +2 positions, and a hydrophobic amino acid at position +1 (1-3). 1. Nishikawa, K. et al. (1997) <i>J Biol Chem</i> 272, 952-60. 2. Pearson, R.B. and Kemp, B.E. (1991) <i>Methods Enzymol</i> 200, 62-81. 3. Obata, T. et al. (2000) <i>J Biol Chem</i> 275, 36108-15. 		
Species Reactivity	Species reactivity is determined by te	esting in at least one approved app	lication (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 E-P: Peptide ELISA (DELFIA)		
Cross-Reactivity Key		hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster ne Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse all species expected	
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