



#6967 Store at -20C

Phospho-PKC Substrate Motif [(R/K)XpSX(R/K)] MultiMab[®] Rabbit mAb mix

Orders: 877-616-CELL (2355)
 orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
 cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
W, IP, E-P	All	Endogenous	Rabbit IgG

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:50
	Peptide ELISA (DELFI A)	1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	Phospho-PKC Substrate Motif [(R/K)XpSX(R/K)] MultiMab [®] Rabbit mAb mix detects endogenous levels of many cellular proteins only when phosphorylated at Ser residues surrounded by Arg or Lys at the -2 and +2 positions. The antibody may also cross-react with S*X(R/K) motif-containing proteins. The antibody does not cross-react with nonphosphorylated Ser residues, phospho-Thr in the same motif, or phospho-Ser in other motifs.	
Source / Purification	MultiMab [®] rabbit monoclonal mix antibodies are prepared by combining individual rabbit monoclonal clones in optimized ratios for the approved applications. Each antibody in the mix is carefully selected based on motif recognition and performance in multiple assays. Each mix is engineered to yield the broadest possible coverage of the modification being studied while ensuring a high degree of specificity for the modification or motif.	
Background	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).	
Background References	<ol style="list-style-type: none"> Nishikawa, K. et al. (1997) <i>J Biol Chem</i> 272, 952-60. Pearson, R.B. and Kemp, B.E. (1991) <i>Methods Enzymol</i> 200, 62-81. Obata, T. et al. (2000) <i>J Biol Chem</i> 275, 36108-15. 	
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 E-P: Peptide ELISA (DELFI A)	
Cross-Reactivity Key	All: All Species Expected	
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