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## Phospho-PKA Substrate (RRXS\*/T\*) (100G7E) Rabbit mAb

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
W, IP, E-P	All	Endogenous	Rabbit IgG
<b>Product Usage Information</b>	<b>Application</b>		<b>Dilution</b>
	Western Blotting		1:1000
	Immunoprecipitation		1:50
	Peptide ELISA (DELFI A)		1:1000
<b>Storage</b>	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.		
<b>Specificity/Sensitivity</b>	Phospho-PKA Substrate (RRXS*/T*) (100G7E) Rabbit mAb detects peptides and proteins containing a phospho-Ser/Thr residue with arginine at the -3 and -2 positions. It is a useful tool in identifying new substrates of PKA. The antibody recognizes other -3 arginine-bearing phospho-Ser/Thr peptides, such as substrate motifs for Akt and PKC, to a lesser extent. It does not recognize the nonphosphorylated substrate motif peptides. (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.)		
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with synthetic phospho-PKA substrate peptides .		
<b>Background</b>	An important class of kinases, referred to as Arg-directed kinases or AGC-family kinases, includes cAMP-dependent protein kinase (PKA), cGMP-dependent protein kinase (PKG), protein kinase C, Akt and RSK. These kinases share a substrate specificity characterized by Arg at position -3 relative to the phosphorylated Ser or Thr (1,2). Phospho-PKA substrate-specific antibodies from Cell Signaling Technology are powerful tools for investigating the regulation of phosphorylation by PKA and other Arg-directed kinases, as well as for high throughput kinase drug discovery.		
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Montminy, M. (1997) <i>Annu Rev Biochem</i> 66, 807-22.</li> <li>2. Pearson, R.B. and Kemp, B.E. (1991) <i>Methods Enzymol</i> 200, 62-81.</li> </ol>		

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>E-P:</b> Peptide ELISA (DELFI A)
<b>Cross-Reactivity Key</b>	<b>All:</b> All Species Expected
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