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# Phospho-(Ser/Thr) PKA Substrate Antibody

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

<b>Applications:</b> W, IP, IHC-P, E-P	<b>Reactivity:</b> All	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin) Peptide ELISA (DELFI A)	<b>Dilution</b> 1:1000 1:100 1:50 - 1:200 1:1000
<b>Storage</b>	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 aliquot the antibody.	
<b>Specificity/Sensitivity</b>	Phospho-(Ser/Thr) PKA Substrate Antibody detects peptides and proteins containing a phospho-serine/threonine residue with arginine at the -3 position. It is a useful tool in identifying substrates of AGC family kinases, including PKA and PKC. It does not cross-react with the nonphosphorylated PKA substrate motif.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic phospho-PKA substrate peptide. Antibodies are purified by protein A and peptide affinity chromatography.	
<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>	1. Montminy, M. (1997) <i>Annu Rev Biochem</i> 66, 807-22. 2. Pearson, R.B. and Kemp, B.E. (1991) <i>Methods Enzymol</i> 200, 62-81.	
<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>	<b>IMPORTANT:</b> 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>IHC-P:</b> Immunohistochemistry (Paraffin) <b>E-P:</b> Peptide ELISA (DELFI A)	
<b>Cross-Reactivity Key</b>	<b>All:</b> All Species Expected	
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