

#9621 Store at -20°C

## Phospho-(Ser/Thr) PKA Substrate Antibody



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

**Applications:** WB, IP, IHC-P, E-P  
**Reactivity:** All  
**Sensitivity:** Endogenous  
**Source:** Rabbit

### Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100
Immunohistochemistry (Paraffin)	1:50 - 1:200
Peptide ELISA (DELFI A)	1:1000

### 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 aliquot the antibody.

### Specificity / Sensitivity

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.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic phospho-PKA substrate peptide. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

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.

### Background References

1. Montminy, M. (1997) *Annu Rev Biochem* 66, 807-22.
2. Pearson, R.B. and Kemp, B.E. (1991) *Methods Enzymol* 200, 62-81.

### 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

**WB:** Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)  
**E-P:** Peptide ELISA (DELFI A)

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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