

#2325 Store at -20C

# Phospho-MAPK/CDK Substrates (PXS\*P or S\*PXR/K) (34B2) Rabbit mAb



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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/Isotype:** Rabbit IgG

## Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50
Immunohistochemistry (Paraffin)	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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

## Specificity / Sensitivity

Phospho-MAPK/CDK Substrates (PXS\*P or S\*PXR/K) (34B2) Rabbit mAb detects phospho-serine in a PXS\*P or S\*PXR/K motif, as well as a PXS\*PXR/K motif. The antibody is phospho-specific, and does not react with phospho-threonine- or phospho-tyrosine-containing peptides/proteins.

## Source / Purification

Monoclonal antibody is produced by immunizing animals with synthetic phospho-MAPK/CDK substrate peptides .

## Background

The MAPK and CDK families of serine/threonine protein kinases play important roles in proliferation and cell cycle control. These kinases phosphorylate threonine or serine followed by a proline residue (1-3). MAPK phosphorylates substrates with the consensus sequence PX(S/T)P, and CDKs phosphorylate substrates containing the consensus sequence (S/T)PXR/K. Cell Signaling Technology has developed antibodies that bind to phospho-threonine followed by proline, motifs PXS\*/T\*P and/or S\*PXR/K, for use in the study and discovery of new MAPK and CDK substrates (4,5).

## Background References

1. Cross, T.G. et al. (2000) *Exp Cell Res* 256, 34-41.
2. Reynolds, C.H. et al. (2000) *J Neurochem* 74, 1587-95.
3. Seger, R. and Krebs, E.G. (1995) *FASEB J* 9, 726-35.
4. Holmes, J.K. and Solomon, M.J. (1996) *J Biol Chem* 271, 25240-6.
5. Songyang, Z. et al. (1996) *Mol Cell Biol* 16, 6486-93.

## 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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