Revision 1

Store at -20C

#2325

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

Cell Signaling TECHNOLOGY®

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

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

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50
Immunohistochemistry (Paraffin)	1:200
Peptide ELISA (DELFIA)	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

W: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **E-P:** Peptide ELISA (DELFIA)

Cross-Reactivity Key

All: All Species Expected

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Limited Uses

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