

Store at -20C
#5501**Phospho-MAPK/CDK Substrates (PXS*P or S*PXR/K) (34B2) Rabbit mAb (Sepharose[®] Bead Conjugate)**
Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
IP	All	Endogenous	Rabbit IgG

Product Usage Information	Application	Dilution
Storage	Immunoprecipitation	1:20
Specificity/Sensitivity	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol. Store at -20°C. Do not aliquot the antibodies.	
Source / Purification	Phospho-MAPK/CDK Substrates (PXS*P or S*PXR/K) (34B2) Rabbit mAb (Sepharose Bead Conjugate) 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. (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.)	
Description	Monoclonal antibody is produced by immunizing animals with synthetic phospho-MAPK/CDK substrate peptides.	
Background	This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. Phospho-MAPK/CDK Substrates (PXS*P or S*PXR/K) (34B2) Rabbit mAb (Sepharose Bead Conjugate) is useful for the immunoprecipitation of Phospho-MAPK/CDK Substrates (PXS*P or S*PXR/K). The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-MAPK/CDK Substrates (PXS*P or S*PXR/K) (34B2) Rabbit mAb #2325.	
Background References	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).	
	<ol style="list-style-type: none"> 1. Cross, T.G. et al. (2000) <i>Exp Cell Res</i> 256, 34-41. 2. Reynolds, C.H. et al. (2000) <i>J Neurochem</i> 74, 1587-95. 3. Seger, R. and Krebs, E.G. (1995) <i>FASEB J</i> 9, 726-35. 4. Holmes, J.K. and Solomon, M.J. (1996) <i>J Biol Chem</i> 271, 25240-6. 5. Songyang, Z. et al. (1996) <i>Mol Cell Biol</i> 16, 6486-93. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IP: Immunoprecipitation
Cross-Reactivity Key	All: All Species Expected
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