

#14390 Store at -20C

Phospho-Ser-Pro-Pro Motif [pSPP] Rabbit mAb



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

Applications: WB	Reactivity: All	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG
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Product Usage Information	Application Western Blotting	Dilution 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-Pro-Pro Motif [pSPP] Rabbit mAb recognizes endogenous levels of proteins only when phosphorylated at serine within the context of the SPP motif. This antibody does not cross-react with proteins phosphorylated at threonine, or with serine residues phosphorylated in other contexts.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide library containing the phospho-Ser-Pro-Pro motif.	
Background	The MAPK and CDK families of serine/threonine protein kinases play important roles in cell signaling and cell cycle control. These kinases phosphorylate threonine or serine followed by a proline residue (1-6). To facilitate the study and discovery of new MAPK and CDK substrates, Cell Signaling Technology has developed antibodies that bind to phospho-threonine or phospho-serine followed by proline. The S/TPP motif matches the consensus sequence for targeted phosphorylation by Cdc2 (7,8), ERK1, ERK2 (9), SAPK/JNK, CDK5, and GSK3 (10).	
Background References	<ol style="list-style-type: none"> 1. Pearson, R.B. and Kemp, B.E. (1991) <i>Methods Enzymol</i> 200, 62-81. 2. Seger, R. and Krebs, E.G. (1995) <i>FASEB J</i> 9, 726-35. 3. Nurse, P. (2000) <i>Cell</i> 100, 71-8. 4. Cross, T.G. et al. (2000) <i>Exp Cell Res</i> 256, 34-41. 5. Yang, C.C. et al. (1998) <i>J Protein Chem</i> 17, 329-35. 6. Reynolds, C.H. et al. (2000) <i>J Neurochem</i> 74, 1587-95. 7. Shah, O.J. et al. (2003) <i>J Biol Chem</i> 278, 16433-42. 8. Songyang, Z. et al. (1994) <i>Curr Biol</i> 4, 973-82. 9. Gonzalez, F.A. et al. (1991) <i>J Biol Chem</i> 266, 22159-63. 10. Yang, X. and Gabuzda, D. (1998) <i>J Biol Chem</i> 273, 29879-87. 	

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
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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