

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

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
W	All	Endogenous	Rabbit IgG
Product Usage Information	Application	Dilution	
	Western Blotting	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"> Pearson, R.B. and Kemp, B.E. (1991) <i>Methods Enzymol</i> 200, 62-81. Seger, R. and Krebs, E.G. (1995) <i>FASEB J</i> 9, 726-35. Nurse, P. (2000) <i>Cell</i> 100, 71-8. Cross, T.G. et al. (2000) <i>Exp Cell Res</i> 256, 34-41. Yang, C.C. et al. (1998) <i>J Protein Chem</i> 17, 329-35. Reynolds, C.H. et al. (2000) <i>J Neurochem</i> 74, 1587-95. Shah, O.J. et al. (2003) <i>J Biol Chem</i> 278, 16433-42. Songyang, Z. et al. (1994) <i>Curr Biol</i> 4, 973-82. Gonzalez, F.A. et al. (1991) <i>J Biol Chem</i> 266, 22159-63. 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	W: Western Blotting		
Cross-Reactivity Key	All: All Species Expected		
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