ion 1

re at -20C	Phospho-Threonine-Proline Mouse mAb (P-Thr-Pro-101)						
Stol					Orders:	877-616-CELL (2355) orders@cellsignal.com	
)1					Support:	877-678-TECH (8324)	
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#					3 Trask Lane Danvers	Massachusetts 01923 USA	
For Research Use Only. Not for Use in Diagnostic Procedures.							
Ap We	oplications: 3, IHC-P, E-P	Reactivity: All	Sensitivity: Endogenous	Source/Isotype: Mouse IgM			
Pro Info	oduct Usage	Application				Dilution	
	ormation	Western Blotting				1:5000	
	Immunohistochemistry (Paraffin)				1:400		
		Peptide ELISA (DELFIA)				1:1000	

StorageSupplied 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 / SensitivityPhospho-Threonine-Proline Mouse mAb (P-Thr-Pro-101) detects phospho-threonine only when followed
by proline. It reacts with proteins and peptides phosphorylated at the Thr-Pro motif in an otherwise highly

by proline. It reacts with proteins and peptides phosphorylated at the Thr-Pro motif in an otherwise highly context-independent fashion. The antibody is phospho-specific, but does not recognize phospho-threonine in the absence of an adjacent proline. The antibody does not react with phospho-tyrosine but does react with some phospho-serine peptides containing the phospho-serine-proline motif (e.g., phospho-Elk-1). (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.)
 Source / Purification
 Monoclonal antibody is produced by immunizing animals with synthetic phospho-threonine-proline-containing peptides. This antibody is a mouse IgM clone and can be recognized by anti-mouse Ig (whole molecule) secondary antibody.

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. As determined by ELISA using a wide variety of phospho-Thr-Pro peptides, Phospho-Threonine-Proline Monoclonal Antibody (P-Thr-Pro-101) recognizes the phospho-Thr-Pro motif in a highly context-independent fashion. It also interacts with a broad range of phospho-Thr-Pro-containing proteins as determined by western analysis of nocodazole-treated Jurkat cell extracts resolved on 2-D gels.
 Background References
 Pearson, R.B. and Kemp, B.E. (1991) Methods Enzymol 200, 62-81.

Seger, R. and Krebs, E.G. (1995) FASEB J 9, 726-35.
 Nurse, P. (2000) *Cell* 100, 71-8.
 Cross, T.G. et al. (2000) *Exp Cell Res* 256, 34-41.
 Yang, C.C. et al. (1998) *J Protein Chem* 17, 329-35.
 Reynolds, C.H. et al. (2000) *J Neurochem* 74, 1587-95.

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 IHC-P: Immunohistochemistry (Paraffin) E-P: Peptide ELISA (DELFIA)
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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Phospho-Threonine-Proline Mouse mAb (P-Thr-Pro-101) (#9391) Datasheet Without Images Cell Signaling ...

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