



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

Store at -20C
#5757

Phospho-Thr-Pro-Pro Motif [pTPP] (D61C3) Rabbit mAb

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-Thr-Pro-Pro Motif [pTPP] (D61C3) Rabbit mAb recognizes endogenous levels of proteins only when phosphorylated within the TPP motif. It does not cross react with phospho-serine or phospho-threonine in other contexts.		
Source / Purification	Monoclonal antibody is produced by immunizing animals with synthetic peptide library containing the phospho-Thr-Pro-Pro motif.		
Background	The phospho-Thr-Pro-Pro motif is a subgroup of the phospho-Thr-Pro motif that is phosphorylated by proline-directed protein kinases, including MAP kinases and cyclin dependent kinases (CDKs). Proline-directed phosphorylation is one of the major regulatory phosphorylation events in cell proliferation, cell differentiation, and a number of other essential cellular processes (1-6). This motif was identified in both phospho-proteomic and motif X analyses as a significant phospho-thr motif (7,8).		
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. Beausoleil, S.A. et al. (2004) <i>Proc Natl Acad Sci U S A</i> 101, 12130-5. Schwartz, D. and Gygi, S.P. (2005) <i>Nat Biotechnol</i> 23, 1391-8. 		
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		
Trademarks and Patents	<p>Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.</p> <p>XP is a registered trademark of Cell Signaling Technology, Inc.</p> <p>All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.</p>		
Limited Uses	<p>Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.</p> <p>Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in</p>		

any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.