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#3004

Phospho-Thr-Pro-Glu (C32G12) Rabbit mAb

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
W, IP, E-P	All	Endogenous	Rabbit IgG
Product Usage Information	Application		Dilution
	Western Blotting		1:1000
	Immunoprecipitation		1:100
	Peptide ELISA (DELFI A)		1:1000
Storage	Supplied 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/Sensitivity	Phospho-Thr-Pro-Glu (C32G12) Rabbit mAb detects endogenous levels of proteins containing phospho-threonine followed by proline and glutamine residues. This antibody also recognizes peptides and proteins containing the phospho-Thr-Pro motif.		
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide library containing the phospho-Thr-Pro-Glu motif.		
Background	The phospho-Thr-Pro-Glu motif is a subgroup of the phospho-Thr-Pro motif. The Thr-Pro motif is phosphorylated by proline-directed protein kinases, such as MAP kinases and cyclin dependent kinases (CDKs). Proline-directed phosphorylation is one of the major regulatory phosphorylation events in many cellular processes, such as cell proliferation and differentiation (1-6). This phospho-Thr-Pro-Glu antibody provides a useful tool to study a subset of substrates of proline-directed kinases.		
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. 		

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 IP: Immunoprecipitation E-P: Peptide ELISA (DELFI A)
Cross-Reactivity Key	All: All Species Expected
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