

#3004 Store at -20C

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



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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
WB, IP, E-P	All	Endogenous	Rabbit IgG

Product Usage Information	<p>Application</p> <p>Western Blotting</p> <p>Immunoprecipitation</p> <p>Peptide ELISA (DELFI A)</p>	<p>Dilution</p> <p>1:1000</p> <p>1:100</p> <p>1:1000</p>
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"> 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. 	

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 IP: Immunoprecipitation E-P: Peptide ELISA (DELFI A)
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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