Revision 1

Store at -20C

#5757

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

Cell Signaling TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
WB	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

1. Pearson, R.B. and Kemp, B.E. (1991) *Methods Enzymol* 200, 62-81.
2. Seger, R. and Krebs, E.G. (1995) *FASEB J* 9, 726-35.
3. Nurse, P. (2000) *Cell* 100, 71-8.
4. Cross, T.G. et al. (2000) *Exp Cell Res* 256, 34-41.
5. Yang, C.C. et al. (1998) *J Protein Chem* 17, 329-35.
6. Reynolds, C.H. et al. (2000) *J Neurochem* 74, 1587-95.
7. Beausoleil, S.A. et al. (2004) *Proc Natl Acad Sci U S A* 101, 12130-5.
8. Schwartz, D. and Gygi, S.P. (2005) *Nat Biotechnol* 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

WB: Western Blotting

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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Limited Uses

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