Revision 4

Store at +4C

#8095

Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Magnetic Bead Conjugate)

Cell Signaling TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
IP	All	Endogenous	Mouse IgG1

Product Usage Information

Application	Dilution
Immunoprecipitation	1:20

Storage

Supplied in PBS Buffer (pH 7.2), 0.1% Tween® 20. Store at 4°C. Do not aliquot the antibodies.

Specificity / Sensitivity

Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Magnetic Bead Conjugate) contains high affinity beads. ELISAs against a wide variety of phosphopeptides indicate that P-Tyr-100 binds phospho-Tyr in a manner largely independent of the surrounding amino acid sequence. 2D gel western blot analysis of pervanadate-treated cell extracts shows that P-Tyr-100 interacts with a broad range of tyrosine-phosphorylated proteins. P-Tyr-100 does not cross-react with peptides containing phospho-Ser or phospho-Thr. (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 phospho-tyrosine containing peptides.

Product Description

This Cell Signaling Technology (CST) antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modifed antibody with formylbenzamide-modified magnetic bead. Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Magnetic Bead Conjugate) is useful for immunoprecipitation assays. The unconjugated Phospho-Tyrosine Mouse mAb (P-Tyr-100) #9411 reacts with all species of phospho-tyrosine protein. CST expects that Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Magnetic Bead Conjugate) will also recognize phospho proteins in all species.

Background

Tyrosine phosphorylation plays a key role in cellular signaling (1). Research studies have shown that in cancer, unregulated tyrosine kinase activity can drive malignancy and tumor formation by generating inappropriate proliferation and survival signals (2). Antibodies specific for phospho-tyrosine (3,4) have been invaluable reagents in these studies. The phospho-tyrosine monoclonal antibodies developed by Cell Signaling Technology are exceptionally sensitive tools for studying tyrosine phosphorylation and monitoring tyrosine kinase activity in high throughput drug discovery.

Background References

1. Schlessinger, J. (2000) *Cell* 103, 211-25.
2. Blume-Jensen, P. and Hunter, T. (2001) *Nature* 411, 355-65.
3. Ward, S.G. et al. (1992) *J Biol Chem* 267, 23862-9.
4. Glenney, J.R. et al. (1988) *J Immunol Methods* 109, 277-85.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IP: Immunoprecipitation

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

Trademarks and Patents

Limited Uses

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