

#14967 Store at 4°C

Phospho-Tyrosine Mouse mAb (P-Tyr-100) (PE Conjugate)

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New 01/15

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications F Endogenous	Species Cross-Reactivity All	Isotype Mouse IgG1
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Description: This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Tyrosine Mouse mAb (P-Tyr-100) #9411.

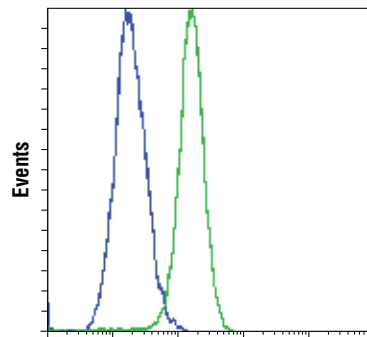
Background: Tyrosine phosphorylation plays a key role in cellular signaling (1). Research studies have shown that in cancer, unregulated tyrosine kinase activity can drive malignancy and tumor formation by generating inappropriate proliferation and survival signals (2). Antibodies specific for phospho-tyrosine (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.

Specificity/Sensitivity: Phospho-Tyrosine Mouse mAb (P-Tyr-100) is a high affinity antibody. 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 also 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.

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.



Phospho-Tyrosine (P-Tyr-100) (PE Conjugate)

Flow cytometric analysis of Jurkat cells untreated (blue) or treated with H_2O_2 (green) using Phospho-Tyrosine Mouse mAb (P-Tyr-100) (PE Conjugate).

Storage: Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.

Recommended Antibody Dilutions:

Flow Cytometry 1:50

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.