

#9417 Store at -20°C

Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Biotinylated)



Cell Signaling
TECHNOLOGY®

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

Applications: WB, IP, IHC-P	Reactivity: All	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1
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Product Usage Information	Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)	Dilution 1:2000 1:50 1:800
Storage	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.	
Specificity / Sensitivity	Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Biotinylated) is prepared by biotinylation of the antibody via primary amines. Biotinylated antibody is useful for detection or purification of tyrosine-phosphorylated proteins using avidin-biotin binding. This antibody does not cross-react with proteins phosphorylated at serine or threonine.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with phospho-Tyr-containing peptides. Antibody is purified by protein A chromatography.	
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) <i>Cell</i> 103, 211-25. 2. Blume-Jensen, P. and Hunter, T. (2001) <i>Nature</i> 411, 355-65. 3. Ward, S.G. et al. (1992) <i>J Biol Chem</i> 267, 23862-9. 4. Glenney, J.R. et al. (1988) <i>J Immunol Methods</i> 109, 277-85.	

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 IHC-P: Immunohistochemistry (Paraffin)
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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