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

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 Description	Monoclonal antibody is produced by immunizing animals with phospho-tyrosine containing peptides. This Cell Signaling Technology (CST) antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified 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	<ol style="list-style-type: none"> Schlessinger, J. (2000) <i>Cell</i> 103, 211-25. Blume-Jensen, P. and Hunter, T. (2001) <i>Nature</i> 411, 355-65. Ward, S.G. et al. (1992) <i>J Biol Chem</i> 267, 23862-9. 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).		
Applications Key	IP: Immunoprecipitation		
Cross-Reactivity Key	All: All Species Expected		
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