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## Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Sepharose® Bead Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
IP	All	Endogenous	Mouse IgG1
<b>Product Usage Information</b>	<b>Application</b>	<b>Dilution</b>	
	Immunoprecipitation	1:20	
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol. Store at -20°C. Do not aliquot the antibodies.		
<b>Specificity/Sensitivity</b>	Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Sepharose® Bead Conjugate) is useful for immunoprecipitation of tyrosine-phosphorylated proteins. P-Tyr-100 is immobilized via the conjugation of carbohydrates to cross-linked agarose hydrazide beads. The antibody does not cross-react with proteins phosphorylated on serine or threonine. (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.)		
<b>Source / Purification Description</b>	Monoclonal antibody is produced by immunizing animals with phospho-Tyr-containing peptides. Do not use for IAP in the PhosphoScan® method. IAP immobilized antibody is specific to the PhosphoScan® Kit.		
<b>Background</b>	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.		
<b>Background References</b>	<ol style="list-style-type: none"> <li>Schlessinger, J. (2000) <i>Cell</i> 103, 211-25.</li> <li>Blume-Jensen, P. and Hunter, T. (2001) <i>Nature</i> 411, 355-65.</li> <li>Ward, S.G. et al. (1992) <i>J Biol Chem</i> 267, 23862-9.</li> <li>Glenney, J.R. et al. (1988) <i>J Immunol Methods</i> 109, 277-85.</li> </ol>		
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
<b>Applications Key</b>	<b>IP:</b> Immunoprecipitation		
<b>Cross-Reactivity Key</b>	<b>All:</b> All Species Expected		
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