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**#9411** Store at -20C

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

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

<b>Applications:</b> W, IP, IHC-P, IF-F, IF-IC, FC-FP, E-P	<b>Reactivity:</b> All	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Mouse IgG1
<b>Product Usage Information</b>	The phosphorylated form of the peptide can be detected with Phospho-Tyrosine mAb (P-Tyr-100) #9411. Sample kinase protocol is attached.		
	<b>Application</b>	<b>Dilution</b>	
	Western Blotting	1:2000	
	Immunoprecipitation	1:100	
	Immunohistochemistry (Paraffin)	1:2400 - 1:9600	
	Immunofluorescence (Frozen)	1:1600 - 1:3200	
	Immunofluorescence (Immunocytochemistry)	1:1600 - 1:3200	
	Flow Cytometry (Fixed/Permeabilized)	1:1600 - 1:6400	
	Peptide ELISA (DELFI A)	1:4000	
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.		
	For a carrier free (BSA and azide free) version of this product see product #80379.		
<b>Specificity/Sensitivity</b>	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.		
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with phospho-tyrosine containing peptides .		
<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>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-F:</b> Immunofluorescence (Frozen) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized) <b>E-P:</b> Peptide ELISA (DELFI A)
<b>Cross-Reactivity Key</b>	<b>All:</b> All Species Expected
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