

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



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

| Applications: | Reactivity: | Sensitivity: | Source/Isotype: |
|---------------|-------------|--------------|-----------------|
| W, IP, IHC-P  | All         | Endogenous   | Mouse IgG1      |

| Product Usage Information | Application  | Dilution |
|---------------------------|--|----------|
|                           | Western Blotting   | 1:2000   |
|                           | Immunoprecipitation  | 1:50     |
|                           | Immunohistochemistry (Paraffin)  | 1:800    |
| Storage                   | Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. <i>Do not aliquot the antibody.</i>   |          |
| 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     | <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>  |          |

| 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       | <b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IHC-P:</b> Immunohistochemistry (Paraffin)  |
| Cross-Reactivity Key   | <b>All:</b> All Species Expected   |
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