

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

✓ 400 µl  
(40 immunoprecipitations)

**Orders** ■ 877-616-CELL (2355)  
orders@cellsignal.com  
**Support** ■ 877-678-TECH (8324)  
info@cellsignal.com  
**Web** ■ www.cellsignal.com

rev. 10/29/10

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

| Applications | Species Cross-Reactivity | Source | Isotype |
|--------------|--------------------------|--------|---------|
| IP           | All                      | Mouse  | IgG1    |

Do not use for IAP in the PhosphoScan® method. IAP immobilized antibody is specific to the PhosphoScan® Kit.

**Background:** Tyrosine phosphorylation plays a key role in cellular signaling (1). 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 Mouse mAbs developed by CST (P-Tyr-100, #9411 and P-Tyr-102, #9416) provide exceptionally sensitive new tools of increased utility for studying tyrosine phosphorylation and monitoring tyrosine kinase activity in high throughput drug discovery.

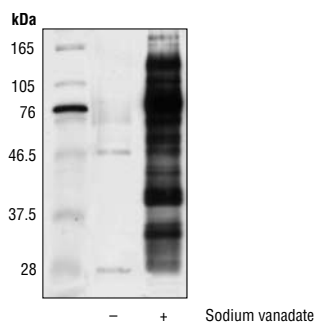
**Specificity/Sensitivity:** Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Sephacose Bead Conjugate) is useful for immunoprecipitation of tyrosine-phosphorylated proteins. P-Tyr-100 is immobilized via the conjugation of carbohydrates to cross-linked agarose hydrazide beads. The antibody does not cross-react 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.)

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with phospho-Tyr-containing peptides.

**Background References:**

- Schlessinger, J. (2000) *Cell* 103, 211–225.
- Blume-Jensen, P. and Hunter, T. (2001) *Nature* 411, 355–365.
- Ward, S.G. et al. (1992) *J. Biol. Chem.* 267, 23862–23869.
- Glenney, J.R. et al. (1988) *J. Immunol. Methods* 109, 277–285.

**License/Use Restrictions:** Use of CST Motif Antibodies within certain methods (e.g., U.S. Patent No.'s 7,198,896 & 7,300,753) may require a license from CST. For information regarding academic licensing terms please have your technology transfer office contact CST Legal Department at CST\_ip@cellsignal.com. For information regarding commercial licensing terms please contact CST Pharma Services Department at ptmscan@cellsignal.com.



Immunoprecipitation of extracts from NIH/3T3 cells, untreated or sodium vanadate-treated (1 mM for 0.5 hour), using Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Sephacose Bead Conjugate), followed by Western blot analysis using Phospho-Tyrosine Mouse mAb (P-Tyr-100) #9411.

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Recommended Antibody Dilutions:**  
Immunoprecipitation 1:20

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com). Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.