Phospho-Tyrosine (P-Tyr-1000) Rabbit mAb (HRP Conjugate)

100 μl (10 western blots)



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Applications Species Cross-Reactivity* W All

Description: This Cell Signaling Technology[®] antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Tyrosine (P-Tyr-1000) Rabbit mAb #8954.

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.

Specificity/Sensitivity: Phospho-Tyrosine (P-Tyr-1000) Rabbit mAb (HRP Conjugate) recognizes a broad range of tyrosine-phosphorylated proteins and peptides. This antibody does not cross-react with proteins or peptides containing phospho-Ser or phospho-Thr residues.

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

Background References:

- (1) Schlessinger, J. (2000) Cell 103, 211-25.
- (2) Blume-Jensen, P. and Hunter, T. (2001) *Nature* 411, 355-65.
- (3) Ward, S.G. et al. (1992) J Biol Chem 267, 23862-9.
- (4) Glenney, J.R. et al. (1988) *J Immunol Methods* 109, 277-85.



Isotype

Rabbit IoG

Western blot analysis of extracts from Jurkat cells, untreated (-) or treated with sodium vanadate (1 mM, 30 min; +) and A-431 cells, untreated (-) or treated with Human Epidermal Growth Factor (hEGF) #8916 (100 ng/ml, 5 min; +), using Phospho-Tyrosine (P-Tyr-1000) Rabbit mAb (HRP Conjugate). **Storage:** Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.

*Species cross-reactivity is determined by western blot using the unconjugated antibody.

HRP-conjugated antibodies do not require incubation with a secondary antibody.

Recommended Antibody Dilutions: Western blotting

For product specific protocols please see the web page for this product at www.cellsignal.com.

1:1000

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.