9416 Store at -20C

Phospho-Tyrosine Mouse mAb (P-Tyr-102)



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Reactivity: All	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	
Application			Dilution
We	stern Blotting		1:2000
Imn	nunoprecipitation		1:50
Flo	w Cytometry (Fixed	/Permeabilized)	1:400
Pep	tide ELISA (DELFI	A)	1:1000
	All App Wes	All Endogenous Application Western Blotting Immunoprecipitation Flow Cytometry (Fixed	All Endogenous Mouse IgG1 Application Western Blotting

Supplied in 10 min sodium HEPES (pH 7.5), 150 min NaCi, 100 µg/mi BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity Phospho-Tyrosine Mouse mAb (P-Tyr-102) is a high affinity IgG1 monoclonal antibody. ELISAs using a wide variety of phospho-peptides show that P-Tyr-102 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-102 interacts with a broad range of tyrosine-phosphorylated proteins. P-Tyr-102's fine specificity in terms of the sequence context in which it can recognize phospho-tyrosine seems to differ slightly from that of P-Tyr-100 #9411. P-Tyr-102 does not recognize peptides containing phospho-Ser or phospho-Thr. (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 synthetic phospho-Tyr-containing peptides.

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

- 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.

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 WB: Western Blotting IP: Immunoprecipitation FC-FP: Flow Cytometry (Fixed/Permeabilized)

E-P: Peptide ELISA (DELFIA)

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

Phospho-Tyrosine Mouse mAb (P-Tyr-102) (#9416) Datasheet Without Images Cell Signaling Technology

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