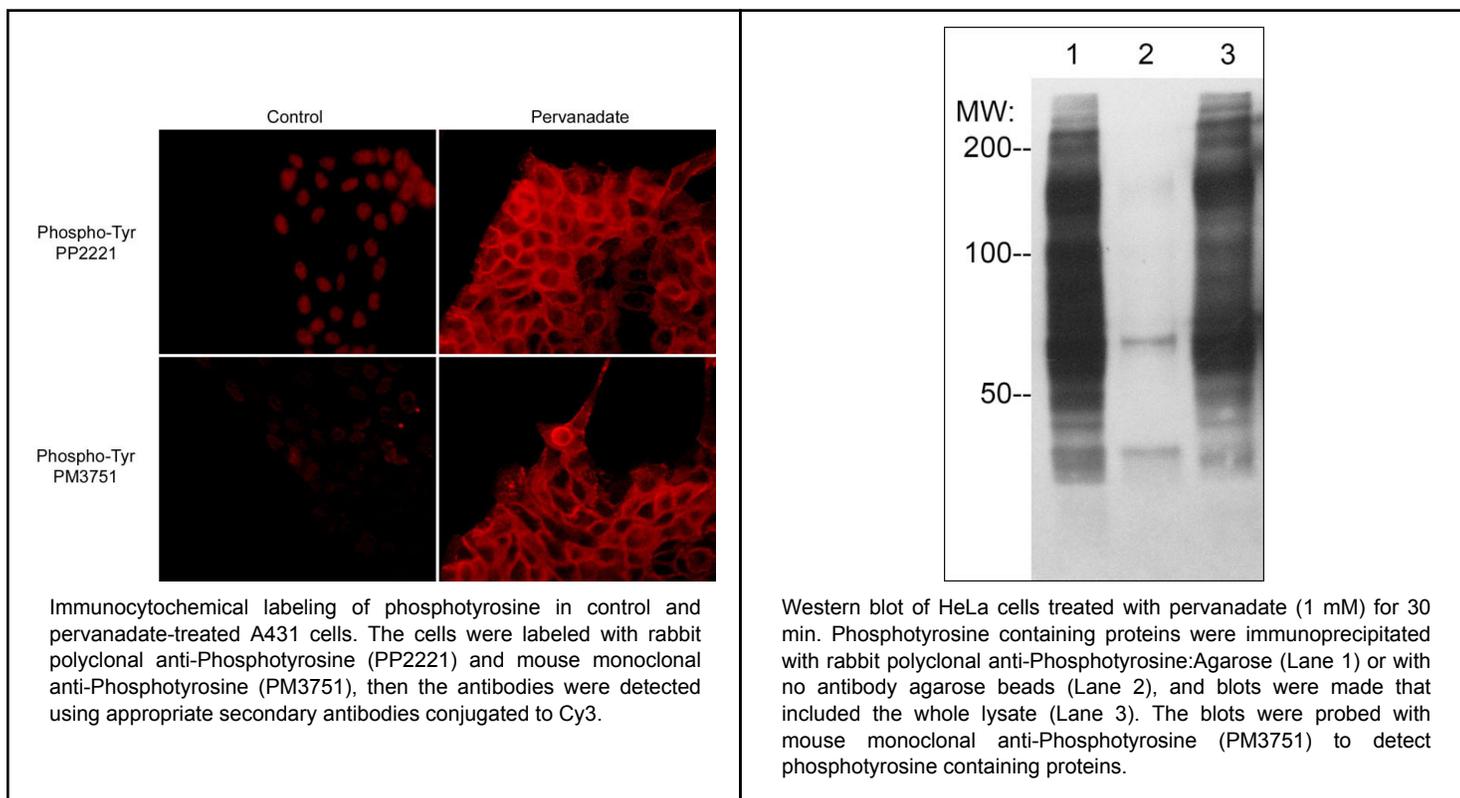


Background

Phosphorylation of specific tyrosine residues is an important post-translational modification for regulating the activity of most proteins. Stimulation of a variety of cell signaling pathways activates the receptor and non-receptor tyrosine kinases that mediate these protein modifications. Antibodies that can detect phosphotyrosine residues are excellent tools for characterizing changes in the post-translational state of a broad range of phosphotyrosine-containing proteins. Immunoprecipitation of proteins of interest, followed by detection of phosphotyrosine using anti-phosphotyrosine antibody is commonly used to correlate changes in tyrosine phosphorylation state with alterations in protein activity.

Background References

- Ross, A.H. et al. (1981) Nature 294:654.
Hunter T.(1987) Cell. 50(6):823.
Wang, J.Y.J. (1988) Anal. Biochem 172:1.



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Immunogen

Clone M375 was generated from tyrosine phosphorylated proteins purified from pervanadate treated A431 cells.

Buffer and Storage

Mouse monoclonal antibody purified with protein A chromatography is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Applications

WB	1:1000
ELISA	1:2000
ICC	1:100
IP	1:100

Species Reactivity

Hu, Rt, Ms, Ck

Isotype: IgG2b

End user should determine optimal dilution for their particular applications and experiments.

Western blot membranes were incubated with diluted antibody in 5% non-fat milk, Tris buffer, 0.04% Tween20 for 1 hour at room temperature.

Abbreviations: E = ELISA, ICC = immunocytochemistry, IHC = immunohistochemistry, IP = immunoprecipitation, MS = mass spectrometry, WB = western blot
Hu = Human, Ms = Mouse, Rt = Rat, Ck = Chicken, F = Frog, B = Bovine

Specificity

This antibody detects phosphotyrosine-containing proteins on SDS-PAGE immunoblots of EGF treated A431 cells, as well as pervanadate treated A431, HeLa, Jurkat, and endothelial cells.

*All molecular weights (MW) are confirmed by comparison to MW standards and to western blot mobilities of known proteins with similar MW.

"Native" western blot utilizes non-reducing sample buffer (no mercaptoethanol or SDS), normal SDS-PAGE gel electrophoresis, and no methanol in transfer buffers.

Related Products

PK6330 Phospho-Tyrosine, Serine, Threonine Antibody Sampler Kit

PM3801 Anti-Phosphoserine/threonine Mouse Monoclonal

PP2221 Anti-Phosphotyrosine Rabbit Polyclonal

PP2551 Anti-Phosphoserine/threonine Rabbit Polyclonal

PP4651 Anti-Phosphotyrosine:Agarose Rabbit Polyclonal

PP4641 Anti-Phosphothreonine Rabbit Polyclonal

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