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Anti-Phosphotyrosine Antibody

Catalog # AN1901

Product Information

Application	WB, ICC, IP
Primary Accession	N/A
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG2b
Clone Names	M375

Additional Information

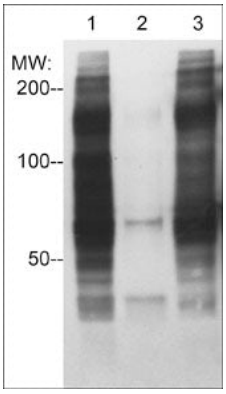
Other Names	Phosphotyrosine mAb
Dilution	WB~~1:1000 ICC~~N/A IP~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Phosphotyrosine Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

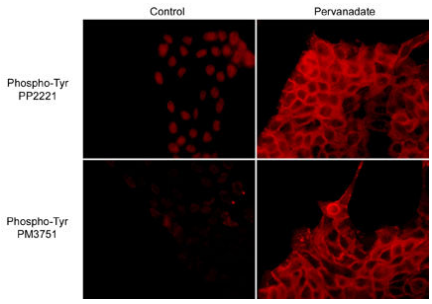
Background

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.

Images

Western blot of HeLa cells treated with pervanadate (1 mM) for 30 min. Phosphotyrosine containing proteins were immunoprecipitated with rabbit polyclonal anti-Phosphotyrosine:Agarose (Lane 1) or with no antibody agarose beads (Lane 2), and blots were made that included the whole lysate (Lane 3). The blots were probed with mouse monoclonal anti-Phosphotyrosine (AN1901) to detect phosphotyrosine containing proteins.





Immunocytochemical labeling of phosphotyrosine in control and pervanadate-treated A431 cells. The cells were labeled with rabbit polyclonal anti-Phosphotyrosine (PP2221) and mouse monoclonal anti-Phosphotyrosine (AN1901), then the antibodies were detected using appropriate secondary antibodies conjugated to Cy3.