

# Anti-Phosphotyrosine

Cat. # **PP2221**  
Host **Rabbit Polyclonal**  
Size **100µl**

## 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.

## References:

Ross, A.H. et al. (1981) Nature 294:654.  
Wang, J.Y.J. (1988) Anal. Biochem 172:1.

## Immunogen:

Anti-Phosphotyrosine was generated from a panel of phosphotyrosine-containing peptide immunogens designed from human protein sequences. All peptide sequences used are highly conserved phosphotyrosine motifs.

## Buffer and Storage:

Rabbit polyclonal, affinity-purified antibody is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Do not aliquot. Stable for 1 year.

## Applications:

Western blotting 1:1000 dilution<sup>†</sup>

ELISA 1:2000 dilution

Immunoprecipitation 1-5 µg

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

<sup>†</sup>Membrane was incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temp.

## 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.

## Related Products:

JL9401 Jurkat Pervanadate Control Lysate

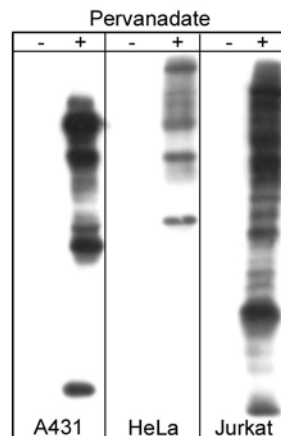
JL9501 Jurkat + Pervanadate Lysate

EL7201 Human Endothelial Pervanadate Control Lysate

AL9401 A431 Pervanadate Control Lysate

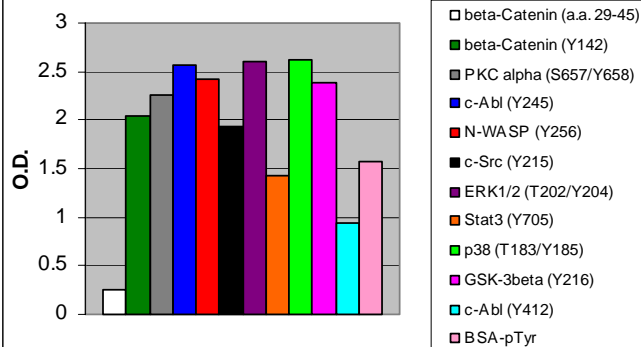
AL9501 A431 + Pervanadate Lysate

EL7301 Human Endothelial + Pervanadate Lysate



Western blot analysis of A431, HeLa, and Jurkat cells (20 µg/lane) untreated or treated with pervanadate (1 mM) for 30 min. Blots were probed with anti-Phosphotyrosine rabbit polyclonal.

## Anti-Phosphotyrosine Binding to Phosphotyrosine Peptides



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