

Product Data Sheet: Purified anti-phospho-Zap70/Syk (Tyr493/Tyr526) rabbit mAb

Catalog Number:	1161
Clone:	Zap70Y493-H11
Isotype:	Rabbit IgG1κ
Immunogen:	A synthetic phospho-peptide corresponding to residues surrounding Tyr493 of human phospho Zap70
Reactivity:	Mouse, Human
Cross Reactivity:	Predicted to work with mouse, rat, and other homologues.
Preparation:	Protein A+G
Formulation:	1X PBS, 0.02% NaN ₃ , 50% Glycerol, 0.1% BSA
Applications:	WB, Flow Cytometry
Recommended Usage:	1- 0.1 µg/ml. Optimum concentration should be determined by the user.
Product Configuration:	200 ul (0.5mg/ml, more than 200 western blots)
Detection:	anti-rabbit IgG

Description

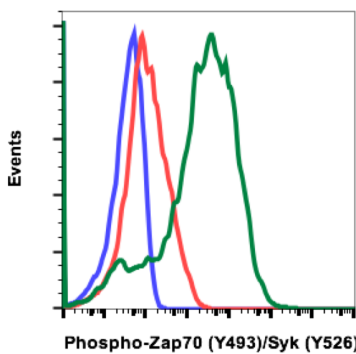
ZAP70 (Tyrosine-protein kinase ZAP-70, phospho Zap70) is a protein tyrosine kinase (PTK) that associates with the z subunit of the T cell antigen receptor (TCR) and undergoes tyrosine phosphorylation following TCR stimulation. Following TCR engagement, Zap-70 is rapidly phosphorylated on several tyrosine residues through autophosphorylation and transphosphorylation by the Src family tyrosine kinase Lck. ZAP70 contains two SH2-like domains with the PTK domain located at the C-terminus. It appears that both phospho Zap70 and Syk are recruited to the phosphorylated CD3 and z subunits after TCR stimulation. Phosphorylation of Tyr319 is required for the assembly of a phospho Zap70-containing signaling complex that leads to the activation of the PLC-gamma1-dependent and Ras-dependent signaling cascades in antigen-stimulated T cells. The orthologous Tyr352 residue in Syk is also involved in the association with PLC-gamma1. Phosphorylation of Tyr493 within the activation loop results in enzymatic activation of phospho Zap70.

References

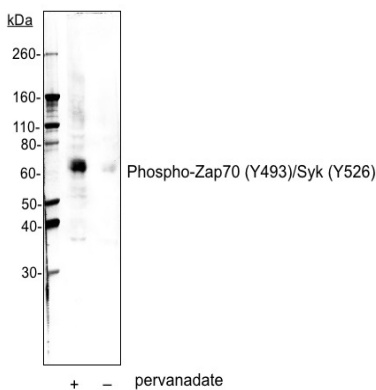
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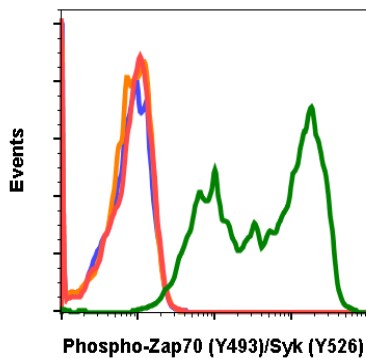
Purified anti-phospho-Zap70/Syk (Tyr493/Tyr526) rabbit mAb Images



Flow cytometric analysis of Jurkat cells, secondary antibody only negative control (blue) or untreated (red) or treated with pervanadate (green) using Phospho-Zap70 (Tyr493)/Syk (Tyr526) antibody Zap70Y493-H11. Cat. #1161.



Western blot analysis of Jurkat cell extract, untreated or treated with pervanadate using Phospho-Zap70 (Tyr493)/Syk (Tyr526) antibody Zap70Y493-H11. Cat. #1161.



Flow cytometric analysis of NIH3T3 cells, secondary antibody only negative control (blue) or 0.1 µg/mL of isotype control Cat. #2141 (orange), or treated with imatinib (red) or with pervanadate (green) using Phospho-Zap70 (Tyr493)/Syk (Tyr526) antibody Zap70Y493-H11 at 0.1 µg/mL. Cat #1161.