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12-4066: Phospho-Zap70 (Tyr319)/Syk (Tyr352) (Clone: A3) rabbit mAb PE conjugate

Clonality: Monoclonal
Clone Name: Zap70Y319-A3

Application: FACS
Reactivity: Human
Conjugate: PE

Alternative Name:

Tyrosine-protein kinase ZAP-70 , 70 kDa zeta-chain associated protein, Syk-related tyrosine

kinase, SRK, Tyrosine-protein kinase SYK, Spleen tyrosine kinase, p72-Syk

Isotype: Rabbit IgG1k

Immunogen Information: A synthetic phospho-peptide corresponding to residues surrounding Tyr319/Tyr352 of human

phospho Zap70/Syk.

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.

Product Info

Amount: 10 Tests / 100 Tests

Content: 1X PBS, 0.09% NaN3, 0.2% BSA

Storage condition : Store at 2-8°C. Avoid repeated freeze and thaw cycles.

Application Note

For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells or 5 μ L per 100 μ L of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

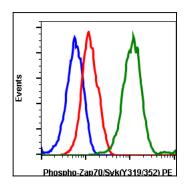


Fig-1: Flow cytometric analysis of Jurkat cells unstained untreated cells as negative control (blue) or stained and untreated (red) or stained and treated with pervanadate (green) using phospho-Zap70 (Tyr319)/Syk (Tyr352) antibody ZapY319-A3 PE conjugate .