

# Phospho-Zap70 (Tyr493)/Syk (Tyr526) (H11) rabbit mAb APC conjugate

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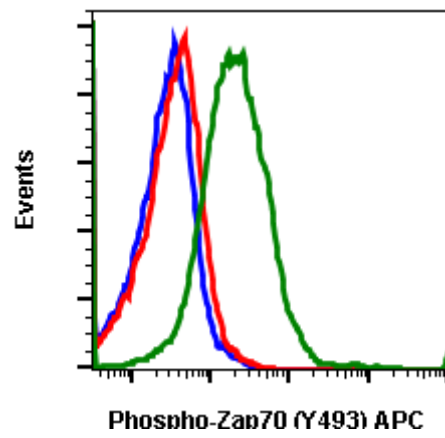
Catalog: #1164

Store at: 2-8°C

*For Research Use Only. Not For Use In Diagnostic Procedures.*

Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGκ

<b>Format:</b>	APC
<b>Cross Reactivity:</b>	Predicted to work with mouse, rat and other homologues.
<b>Formulation:</b>	1X PBS, 0.09% NaN <sub>3</sub> , 0.2% BSA
<b>Preparation:</b>	Protein A+G
<b>Reactivity:</b>	Human, Mouse
<b>Recommended Usage:</b>	For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Immunogen:</b>	A synthetic phospho-peptide corresponding to residues surrounding Tyr493 of human phospho Zap70
<b>Description:</b>	<p>ZAP70 (Tyrosine-protein kinase ZAP-70, phospho Zap70) is a protein tyrosine kinase (PTK) that associates with the <math>\zeta</math> 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 <math>\zeta</math> 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.</p>
<b>References:</b>	<ol style="list-style-type: none"><li>1. Brdicka T et al., (2005) Mol Cell Biol 25:4924-4933.</li><li>2. Chan AC et al., (1992) Cell 71:649-662.</li><li>3. Cheng AM et al., (1997) Proc Natl Acad Sci 94:9797-9801.</li><li>4. Deindl S et al., (2007) Cell 129:735-746.</li><li>5. Elder ME et al., (1994) Science 264:1596-1599.</li><li>6. Negishi I et al., (1995) Nature 376:435-438.</li><li>7. Yokosuka T et al., (2005) Nat Immunol 6:1253-1262.</li></ol>



Flow cytometric analysis of Jurkat cells unstained cells negative control (blue) or stained and untreated (red) or treated with pervanadate (green) using Phospho-Zap70 (Tyr493)/Syk (Tyr526) antibody Zap70Y493-H11-APC conjugate. Cat. #1164.