# Phospho-Zap70 (Tyr319)/Syk (Tyr352) (A3) rabbit mAb SureLight 488 conjugate

www.abwizbio.com
Support: info@abwizbio.com
Order: sales@abwizbio.com

**Catalog:** #2080

**Store at:** 2-8ºC

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

| Applications | Detection | Clonality | Isotype |
|---|---|---|---|
| Flow Cytometry | N/A | Monoclonal | Rabbit IgGk |

**Format:** SureLight 488

**Cross Reactivity:** Predicted to work with mouse, rat and other homologues.

**Formulation:** 1X PBS, 0.09% NaN3, 0.2% BSA

**Preparation:** Protein A+G

**Reactivity:** Human,Mouse

**Recommended Usage:** 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.

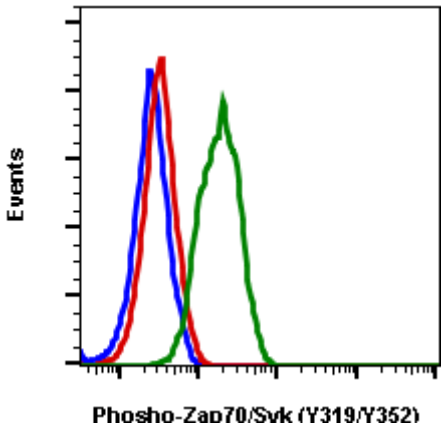
**Immunogen:** A synthetic phospho-peptide corresponding to residues surrounding Tyr319/Tyr352 of human phospho Zap70/Syk.

**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.

**References:**

1. Brdicka T et al., (2005) Mol Cell Biol 25:4924–4933.
2. Chan AC et al., (1992) Cell 71:649–662.
3. Cheng AM et al., (1997) Proc Natl Acad Sci94:9797–9801.
4. Deindl S et al., (2007) Cell 129:735–746.
5. Elder ME et al., (1994) Science 264:1596–1599.
6. Negishi I et al., (1995) Nature 376:435–438.
7. Yokosuka T et al., (2005) Nat Immunol 6:1253–1262.

©2026 Abwiz Bio




Flow cytometric analysis of Jurkat cells unstained untreated cells as negative control (blue) or stained untreated (red) or treated with pervanadate (green) using phospho-Zap70 (Tyr319)/Syk (Tyr352) antibody ZapY319-A3 Surelight® 488 conjugate Cat. #2080.

©2026 Abwiz Bio