Phospho-Zap70 (Tyr319)/Syk (Tyr352) (A3) rabbit mAb

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Catalog: #2076 **Store at:** -20ºC

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

Applications	Detection	Clonality	Isotype
Flow Cytometry	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: Unconjugated

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

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse

Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

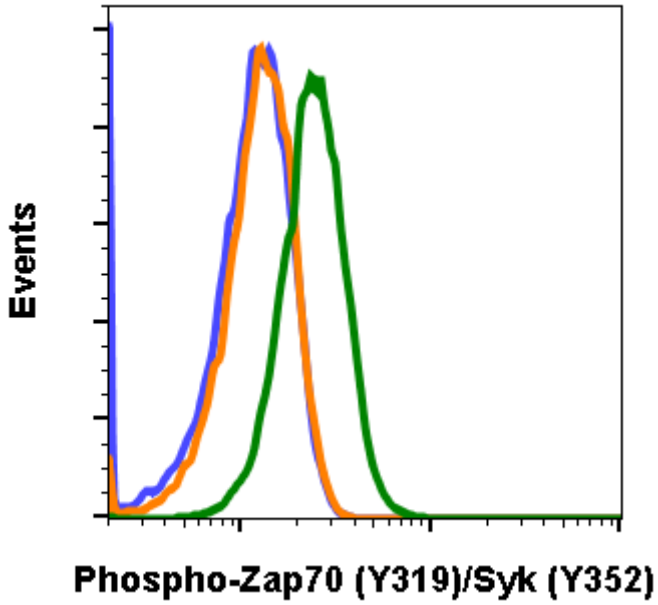
Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Tyr319/Tyr352 of human phospho Zap70/Syk.

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.

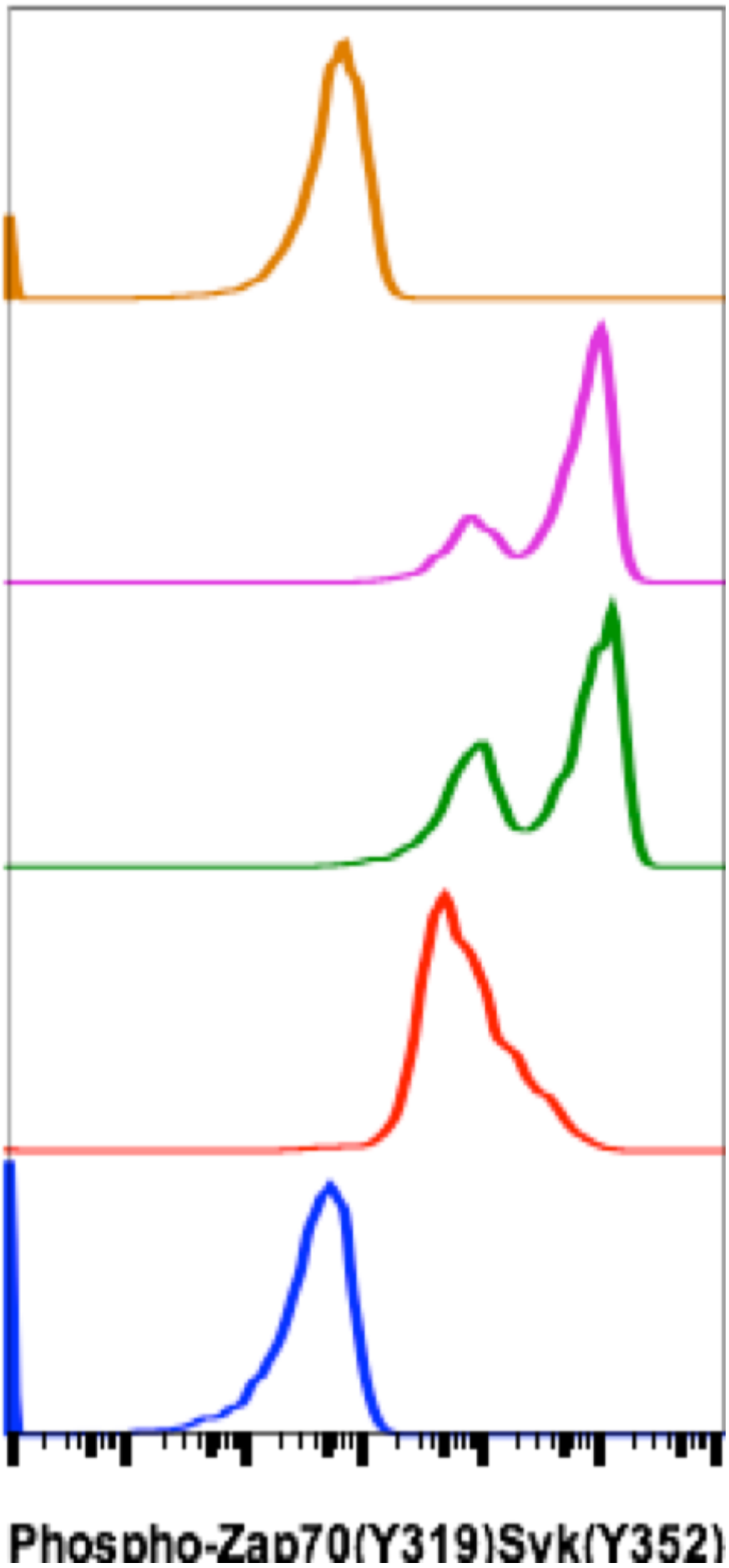
References:

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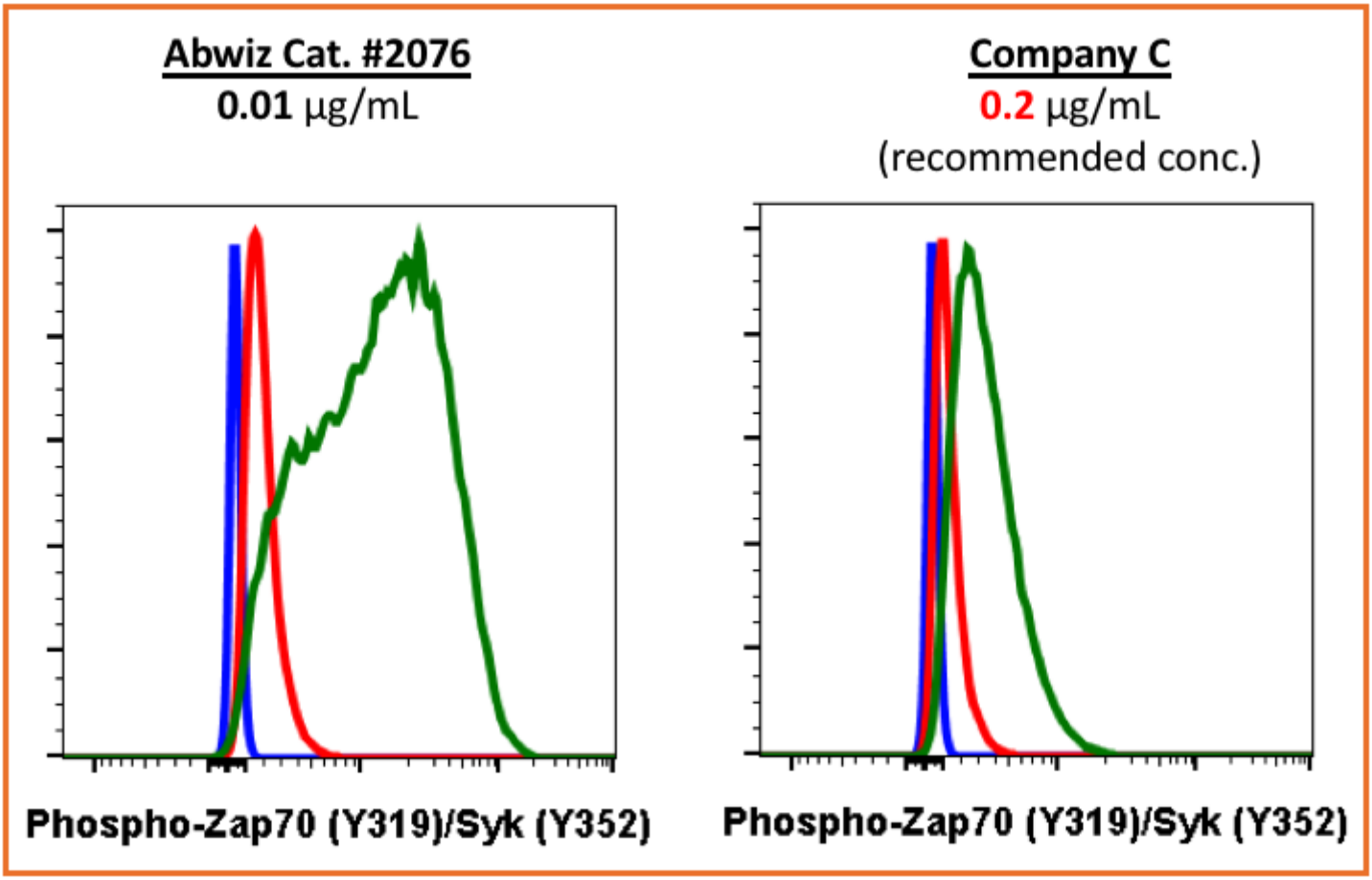
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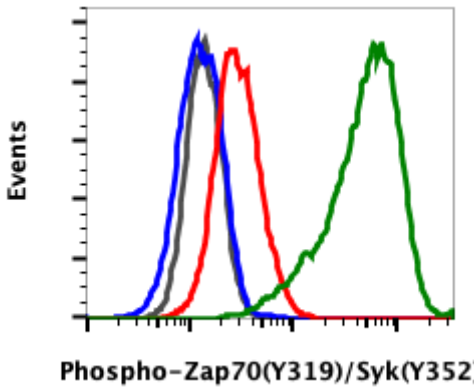
ZapY319-A3 recognizes basal phosphorylation levels in mouse cells. Flow cytometric analysis of L929 cells secondary antibody only (blue) or 0.1 µg/mL of isotype control Cat. #2141 (orange) or of Phospho-Zap70 (Tyr319)/Syk (Tyr352) antibody ZapY319-A3 (green) Cat. #2076.



Flow cytometric analysis of Jurkat cells secondary antibody only negative control (blue) untreated (red) treated with pervanadate (green) treated + blocked with non-phospho-peptide (violet) or treated +blocked with phospho-peptide (brown) using Phospho-Zap70 (Tyr319)/Syk (Tyr352) antibody ZapY319-A3 (0.05 ¬µg/mL) Cat. #2076.



Flow cytometric analysis of Jurkat cells secondary antibody only negative control (blue) or untreated (red) or treated with H2O2 (green) using 0.01 µg/mL Phospho-Zap70 (Y319)/Syk (Y352) antibody ZapY319-A3 (Abwiz Cat. #2076) or Company C antibody at 0.2 µg/mL (manufacturer's recommended concentration).



Flow cytometric analysis of Jurkat cells, untreated (red) or treated with pervanadate (green) using Phospho-Zap70(Tyr319)/Syk (Tyr352) A3 antibody Zap70Y319-A3 at 0.01 µg/mL, Cat.#2077 or concentration matched isotope (KLH-G9) for untreated cells (gray) or treated with pervandate (blue) Cat.#2141 #2436.

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