Phospho-Zap70 (Tyr319)/Syk (Tyr352) (A11) rabbit mAb

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Applications	Detection	Clonality	Isotype
WB	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

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.

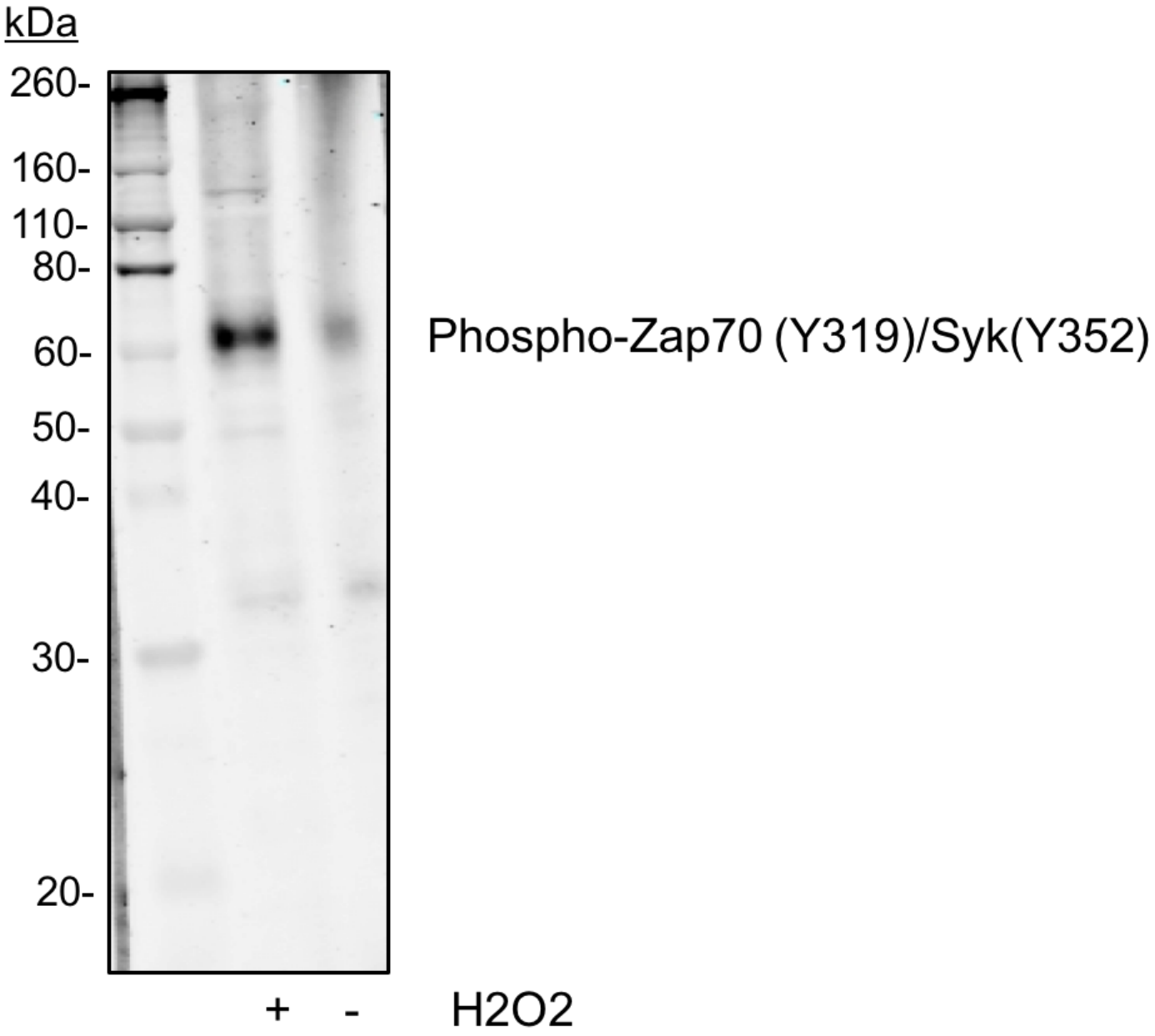
Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Tyr319/Tyr352 of human phospho Zap70/Syk.

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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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.

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Western blot analysis of Jurkat cell extract untreated or treated with H2O2 using 0.05 µg/mL Phospho-Zap70 (Tyr319)/Syk(Tyr352) antibody Zap70Y319-A11. Cat. #2166.

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