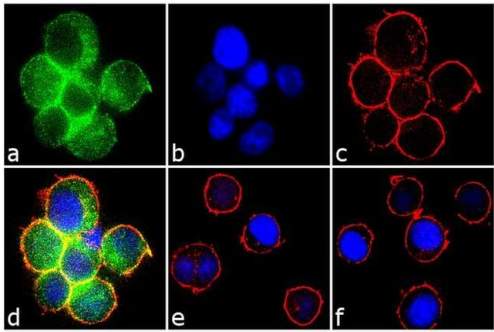


Phospho-Syk (Tyr323, Tyr317) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from a region of human Syk that contains tyrosine 323 (tyrosine 317 in the mouse sequence).
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2533612

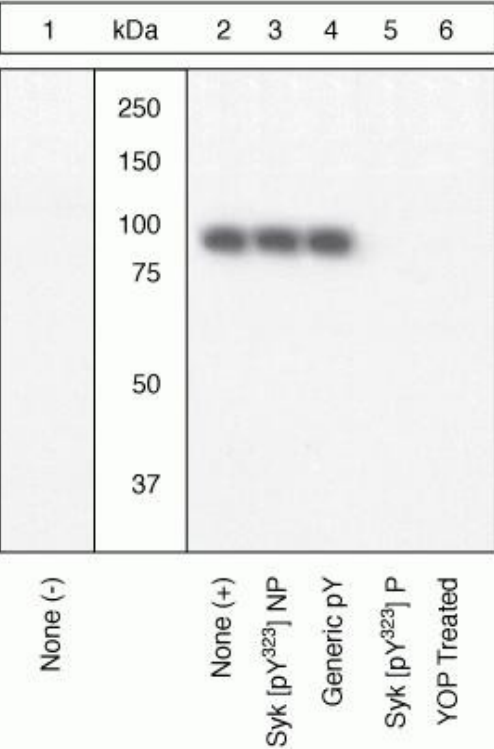
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	1 Publication
Immunocytochemistry (ICC/IF)	1:250	-

Product Images For Phospho-Syk (Tyr323, Tyr317) Polyclonal Antibody



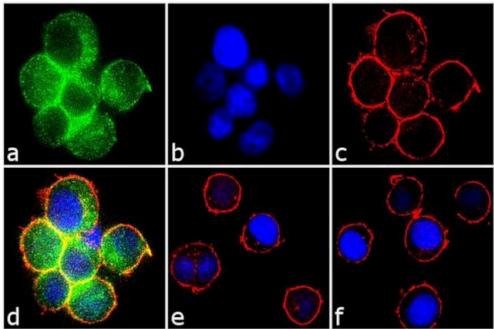
Phospho-Syk (Tyr323, Tyr317) Antibody (44-234G)

Modulation of expression of target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Phospho-Syk (Tyr323, Tyr317) using Phospho-Syk (Tyr323, Tyr317) Rabbit Polyclonal Antibody (Product # 44-234G) shows cytoplasmic localization of Phospho-Aurora A (Thr288) in Jurkat cells treated with hydrogen peroxide. {TM}



Phospho-Syk (Tyr323, Tyr317) Antibody (44-234G) in WB

Upregulation, Antibody-Peptide Competition and Phosphatase Stripping. Extracts of Jurkat cells untreated (1) or treated with 10 mM H₂O₂ for 3 minutes (2-6) were resolved by SDS-PAGE on a 10% Tris-glycine gel and transferred to PVDF. The membrane was either left untreated (1-5) or treated with YOP phosphatase (6), then blocked with a 3% milk-TBST buffer for one hour at room temperature, and incubated with the Syk (pY₃₂₃) antibody for two hours at room temperature in a 3% milk-TBST buffer, following prior incubation with: no peptide (1, 2, 6), the non-phosphopeptide corresponding to the phosphopeptide immunogen (3), a generic phosphotyrosine-containing peptide (4), or the phosphopeptide immunogen (5). After washing, the membrane was incubated with goat F (ab')₂ anti-rabbit IgG HRP conjugate (Product # ALI4404) and signals were detected using the Pierce SuperSignal™ method. The data show that only the phosphopeptide corresponding to Syk (pY₃₂₃) blocks the antibody signal, demonstrating the specificity of the antibody. The data also show the up-regulation of phosphorylation upon treatment with H₂O₂ in this cell system and that phosphatase stripping eliminates the signal, further verifying that the antibody is phospho-specific.



Phospho-Syk (Tyr323, Tyr317) Antibody (44-234G) in ICC/IF

Immunofluorescence analysis of Phospho-Syk pTyr323/pTyr317 was performed using 70% confluent log phase Jurkat cells treated with 100 uM H₂O₂ for 1 hour. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with Phospho-Syk pTyr323/pTyr317 Rabbit Polyclonal Antibody (Product # 44-234G) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows untreated cells with no signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

Western Blot (1)

Immunity	Year 2020
Immune Sensing of Cell Death through Recognition of Histone Sequences by C-Type Lectin-Receptor-2d Causes Inflammation and Tissue Injury.	Species Mouse
"44-234G was used in Western Blot to examine the effects of histones binding to C-type lectin receptors following necrotic cell death."	
Authors: Lai JJ,Cruz FM,Rock KL	

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