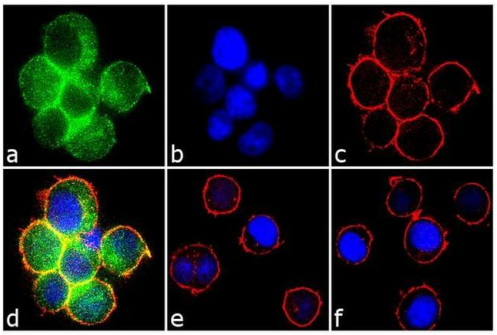
Phospho-Syk (Tyr323, Tyr317) Polyclonal Antibody

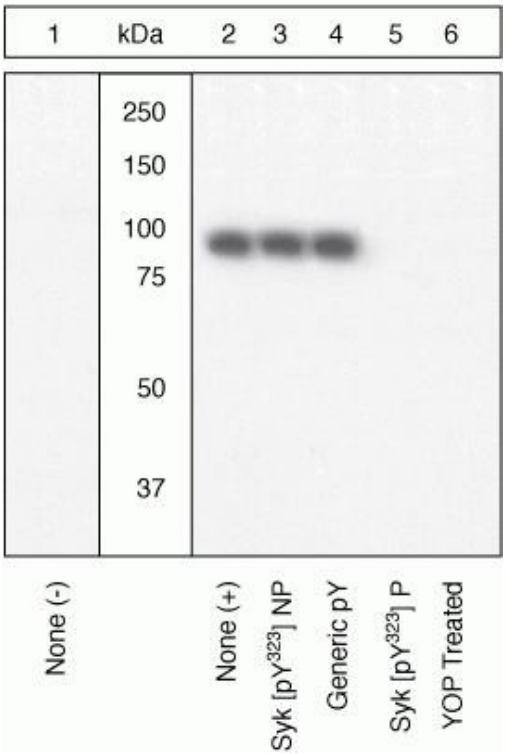
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from a region of human Syk that contains tyrosine 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	-

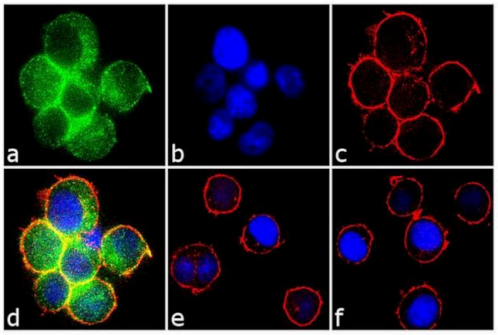
Product Images For Phospho-Syk (Tyr323, Tyr317) Polyclonal Antibody



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.

1 Reference

Western Blot (1)

Immunity

Immune Sensing of Cell Death through Recognition of Histone Sequences by C-Type Lectin-Receptor-2d Causes Inflammation and Tissue Injury.

"44-234G was used in Western Blot to examine the effects of histones binding to C-type lectin receptors following necrotic cell death."

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Year
2020

Species
Mouse