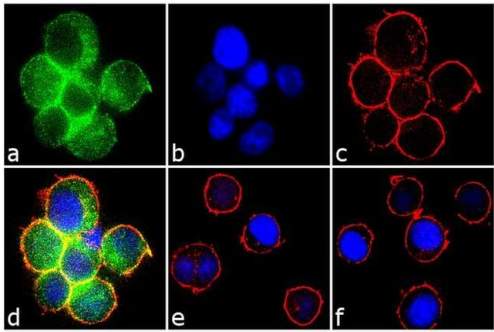


Phospho-Syk (Tyr323, Tyr317) Polyclonal Antibody

| 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 |

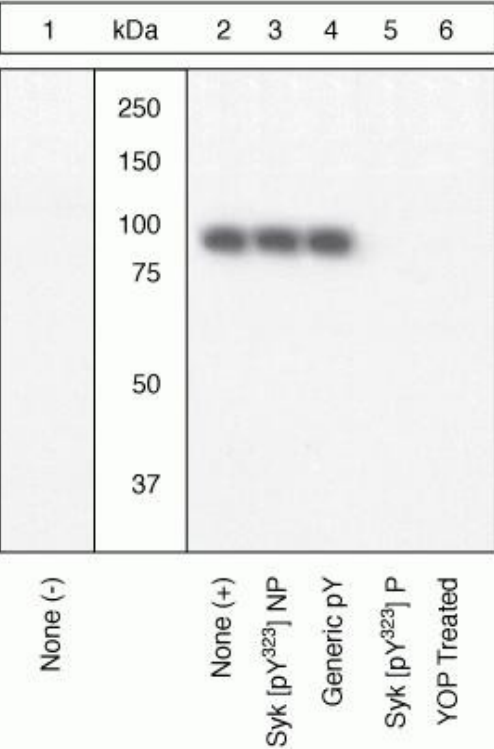
| Applications | Tested Dilution | Publications |
|------------------------------|-----------------|---------------|
| Western Blot (WB) | 1:1,000 | 1 Publication |
| Immunocytochemistry (ICC/IF) | 1:250 | - |

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



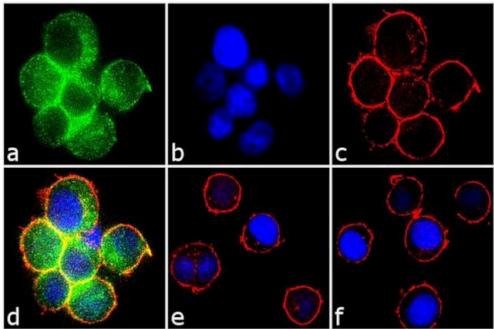
Phospho-Syk (Tyr323, Tyr317) Antibody (44-234G)

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 | |

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.