

Anti-Phospho-Syk (Y525 + Y526) Antibody [PSH03-70] - BSA and Azide free

HA750904



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 72 kDa
Clone number:	PSH03-70

Description:	Tyrosine-protein kinase SYK, also known as spleen tyrosine kinase, is an enzyme which in humans is encoded by the SYK gene. SYK, along with ZAP70, is a member of the Syk family of tyrosine kinases. These cytoplasmic non-receptor tyrosine kinases share a characteristic dual SH2 domain separated by a linker domain. However, activation of SYK relies less on phosphorylation by Src family kinases than ZAP70. SYK and ZAP70 share a common evolutionary origin and split from a common ancestor in the jawed vertebrates. While Syk and ZAP70 are primarily expressed in hematopoietic tissues, a variety of tissues express Syk. Within B and T cells, respectively, Syk and ZAP70 transmit signals from the B-cell receptor and T-cell receptor. Syk plays a similar role in transmitting signals from a variety of cell surface receptors including CD74, Fc receptor, and integrins.
Immunogen:	Synthetic phospho-peptide corresponding to residues surrounding Tyr525 and 526 of Human Syk.
Positive control:	Ramos serum starved for 16 hours add 12µg/mL human IgM (diluted in serum free medium) for 2 minutes cell lysate, Ramos cells serum starved for 16 hours add 12µg/mL human IgM (diluted in serum free medium) for 2 minutes.
Subcellular location:	Cell membrane, Cytoplasm, cytosol.
Database links:	SwissProt: P43405 Human
Recommended Dilutions:	
WB	1:1,000
IF-Cell	1:1,000
Storage Buffer:	PBS (pH7.4).
Storage Instruction:	Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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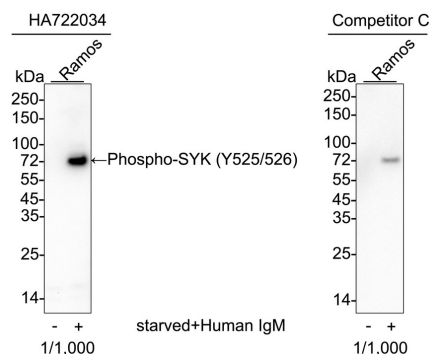
Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of Phospho-Syk (Y525 + Y526) on different lysates with Rabbit anti-Phospho-Syk (Y525 + Y526) antibody (HA750904) at 1/1,000 dilution and competitor's antibody at 1/1,000 dilution.

Lane 1: Ramos cell lysate

Lane 2: Ramos serum starved for 16 hours add 12µg/mL human IgM (diluted in serum free medium) for 2 minutes cell lysate



Lysates/proteins at 20 µg/Lane.

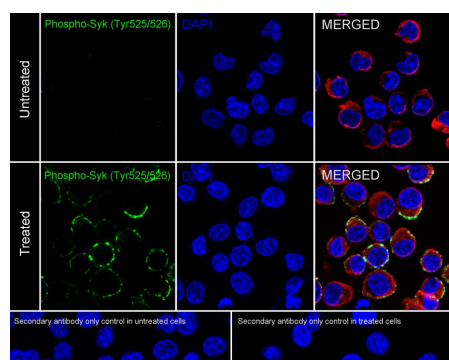
Predicted band size: 72 kDa

Observed band size: 72 kDa

Exposure time: Lane 1-2 (left): 1 minute 2 seconds; Lane 1-2 (right): 2 minutes 18 seconds; ECL: K1801; 4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750904) at 1/1,000 dilution and competitor's antibody at 1/1,000 dilution were used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Immunocytochemistry analysis of Ramos cells serum starved for 16 hours add 12µg/mL human IgM (diluted in serum free medium) for 2 minutes labeling Phospho-Syk (Y525 + Y526) with Rabbit anti-Phospho-Syk (Y525 + Y526) antibody (HA750904) at 1/1,000 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Phospho-Syk (Y525 + Y526) antibody (HA750904) at 1/1,000 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Wang S et al. TREM2 drives microglia response to amyloid- β via SYK-dependent and -independent pathways. Cell. 2022 Oct
2. Ennerfelt H et al. SYK coordinates neuroprotective microglial responses in neurodegenerative disease. Cell. 2022 Oct

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