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Datasheet for ABIN94475  
**anti-SYK antibody (AA 5-360)**

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### Overview

Quantity:	0.1 mg
Target:	SYK
Binding Specificity:	AA 5-360
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SYK antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunocytochemistry (ICC)

### Product Details

Immunogen:	Recombinant fragment (aa 5-360) of human Syk.
Clone:	SYK-01
Isotype:	IgG1
Specificity:	The antibody SYK-01 reacts with protein tyrosine kinase p72Syk (Syk, an intracellular antigen), which is required for the transduction of signals through the B cell antigen receptor (BCR) and the high affinity IgE receptor (FcεRI).
Cross-Reactivity (Details):	Mouse, Human, Rat, Other not tested
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

## Target Details

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Target:	SYK
Alternative Name:	Syk ( <a href="#">SYK Products</a> )
Background:	Spleen associated tyrosine kinase, Syk is a cytoplasmic protein tyrosine kinase that translocates to the plasma membrane upon B cell antigen receptor (BCR) or the high-affinity IgE receptor (FcεRI) triggering, and phosphorylates downstream adaptor proteins, thereby providing docking sites for initiation of subsequent signaling pathways, such as calcium mobilization, cytoskeleton remodeling, or transcription of specific genes. Syk binds to the receptor assemblies through interactions of its pair of SH2 domains with ITAM motives of the receptor, which have been phosphorylated by Src-family kinases. These kinases also help to activate Syk by phosphorylation of its activation loop., p72Syk
Gene ID:	6850
UniProt:	<a href="#">P43405</a>
Pathways:	<a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Thromboxane A2 Receptor Signaling</a> , <a href="#">BCR Signaling</a>

## Application Details

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Application Notes:	Western blotting: Recommended dilution: 1-2 µg/mL. Immunohistochemistry (paraffin sections): Recommended dilution: 5 µg/mL, positive tissue: tonsil B cells.
Restrictions:	For Research Use only

## Handling

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Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	<b>Do not freeze.</b>
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

## Publications

Product cited in:

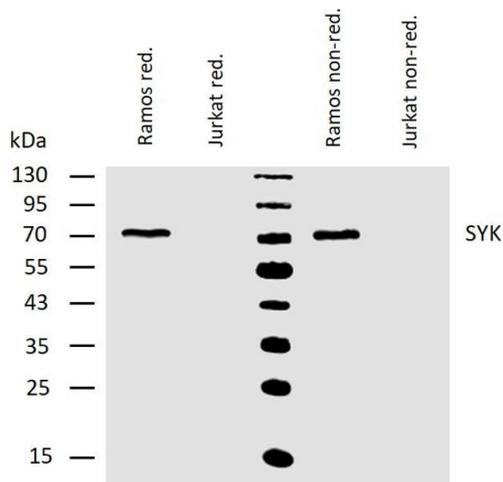
Hasan, Rahman, Sebo, Osicka: "Distinct Spatiotemporal Distribution of Bacterial Toxin-Produced Cellular cAMP Differentially Inhibits Opsonophagocytic Signaling." in: **Toxins**, Vol. 11, Issue 6, (2020) ([PubMed](#)).

Heneberg, Lebduska, Dráberová, Korb, Dráber: "Topography of plasma membrane microdomains and its consequences for mast cell signaling." in: **European journal of immunology**, Vol. 36, Issue 10, pp. 2795-806, (2006) ([PubMed](#)).

Hálová, Dráberová, Dráber: "A novel lipid raft-associated glycoprotein, TEC-21, activates rat basophilic leukemia cells independently of the type 1 Fc epsilon receptor." in: **International immunology**, Vol. 14, Issue 2, pp. 213-23, (2002) ([PubMed](#)).

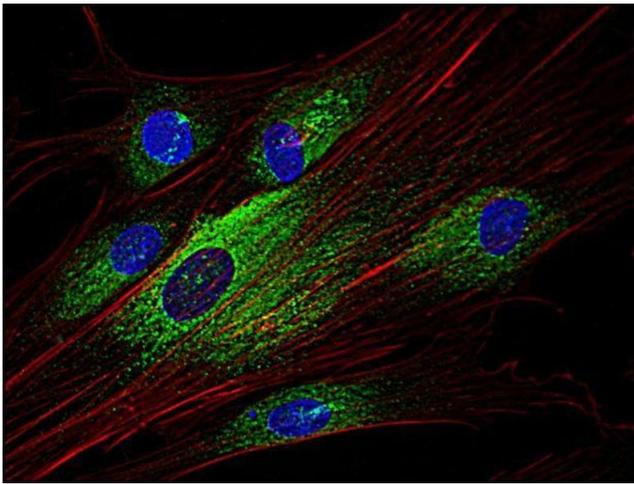
Arudchandran, Brown, Peirce, Song, Zhang, Siraganian, Blank, Rivera: "The Src homology 2 domain of Vav is required for its compartmentation to the plasma membrane and activation of c-Jun NH(2)-terminal kinase 1." in: **The Journal of experimental medicine**, Vol. 191, Issue 1, pp. 47-60, (2000) ([PubMed](#)).

## Images



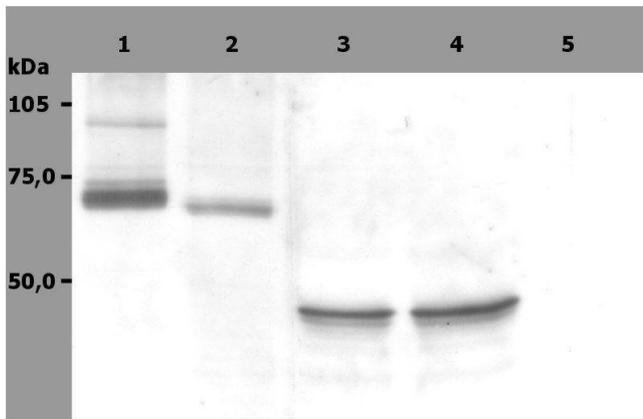
### Western Blotting

**Image 1.** Western blotting analysis of human Syk using mouse monoclonal antibody SYK-01 on lysates of Ramos and Jurkat (negative control) cells under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/mL of mouse anti-Syk monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. Syk was detected around 72 kDa.



### Immunofluorescence

**Image 2.** Immunofluorescence staining of Syk in human primary fibroblasts using anti-Syk (; green). Actin cytoskeleton was decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).



### Western Blotting

**Image 3.** Western Blotting analysis (non-reducing conditions) of whole cell lysate of RAMOS human Burkitt lymphoma cell line (1), RBL rat basophilic leukemia cell line (2) and HeLa human cervix carcinoma cell line (3, 4). Lane 1, 2: immunostaining with anti-Syk (SYK-01) Lane 3, 4: immunostaining with anti-human Cytokeratin 18 (DC-10)

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN94475.