

For Research Use Only

# SYK Monoclonal antibody

Catalog Number: 66721-1-Ig

Featured Product

6 Publications



## Basic Information

<b>Catalog Number:</b> 66721-1-Ig	<b>GenBank Accession Number:</b> BC001645	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2200 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6850	<b>CloneNo.:</b> 4C4A12
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000165025	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:500-1:2000 IF-P 1:50-1:500
<b>Isotype:</b> IgG2b	<b>UNIPROT ID:</b> P43405	
<b>Immunogen Catalog Number:</b> AG17654	<b>Full Name:</b> spleen tyrosine kinase	
	<b>Calculated MW:</b> 635 aa, 72 kDa	
	<b>Observed MW:</b> 70-75 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, IP, ELISA	<b>Positive Controls:</b> WB : Raji cells, THP-1 cells, Ramos cells, Daudi cells
<b>Cited Applications:</b> WB, IF, IP	<b>IHC :</b> human tonsillitis tissue,
<b>Species Specificity:</b> human	<b>IF-P :</b> human tonsillitis tissue,
<b>Cited Species:</b> human, mouse, pig	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

SYK(spleen tyrosine kinase) is a key regulator of signal transduction events,apoptosis and orderly cell cycle progression in B-lineage lymphoid cells. Although SYK has not been linked to a human disease, defective expression of the closely related T-cell tyrosine kinase ZAP-70 has been associated with severe combined immunodeficiency(PMID:11494125). This protein has 2 isoforms produced by alternative splicing. SYK also promotes liver fibrosis by activation of hepatic stellate cells and acts as a biomarker for human hepatocellular carcinoma. (PMID: 29537660)

## Notable Publications

Author	Pubmed ID	Journal	Application
Jie Jia	36152731	Exp Cell Res	WB
Tian-Jiao Li	35077803	Cancer Lett	WB
Xiaohua Zhang	39316625	PLoS Pathog	WB

## Storage

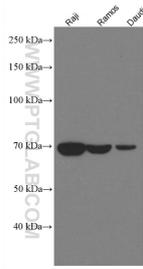
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

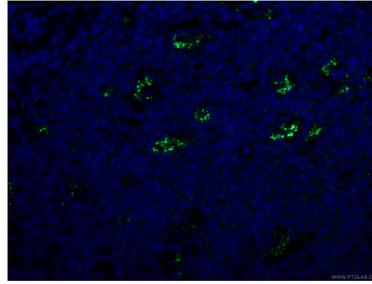
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

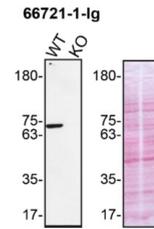
## Selected Validation Data



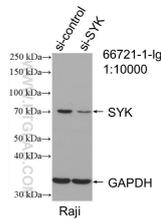
Various lysates were subjected to SDS PAGE followed by western blot with 66721-1-Ig (SYK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



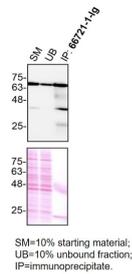
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66721-1-Ig (SYK antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



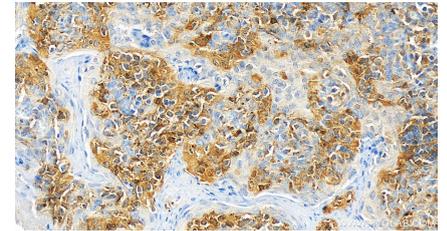
THP-1 (WT and SYK KO) lysates prepared with RIPA buffer, 30 µg protein loaded. 66721-1-Ig incubated at 1:500 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



WB result of SYK antibody (66721-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SYK transfected Raji cells.



MDA-MB-231 lysates prepared and IP of SYK performed using 2.0 µg of 66721-1-Ig coupled to protein G- Sepharose beads. The Ponceau stained transfers of each blot are shown. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66721-1-Ig (SYK antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).