

For Research Use Only

# SYK Monoclonal antibody

Catalog Number: 66721-1-Ig

Featured Product

8 Publications



## Basic Information

Catalog Number:

66721-1-Ig

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG17654

GenBank Accession Number:

BC001645

GeneID (NCBI):

6850

ENSEMBL Gene ID:

ENSG00000165025

UNIPROT ID:

P43405

Full Name:

spleen tyrosine kinase

Calculated MW:

635 aa, 72 kDa

Observed MW:

70-75 kDa

Purification Method:

Protein A purification

CloneNo.:

4C4A12

Recommended Dilutions:

WB: 1:2000-1:10000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:500-1:2000

IF-P: 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Cited Applications:

WB, IF, IP

Species Specificity:

human

Cited Species:

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**

Positive Controls:

WB: Raji cells, THP-1 cells, Ramos cells, Daudi cells

IP: MDA-MB-231 cells,

IHC: human tonsillitis tissue,

IF-P: human tonsillitis tissue,

## 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
Wei Sang	40381970	Gene	WB,IF

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

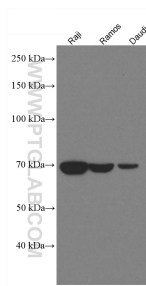
T: 4006900926

E: Proteintech-CN@ptglab.com

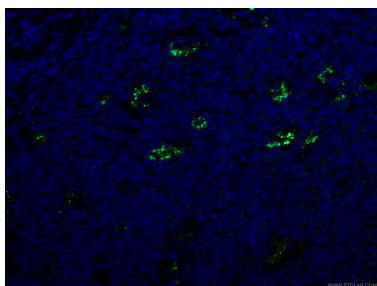
W: ptgcn.com

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

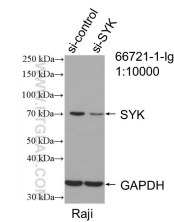
Selected Validation Data



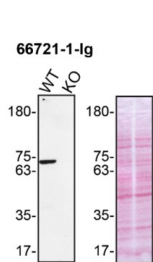
Various lysates were subjected to SDS PAGE followed by western blot with 66721-1-Ig (SYK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



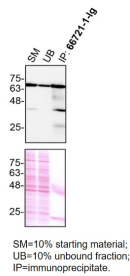
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66721-1-Ig (SYK antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



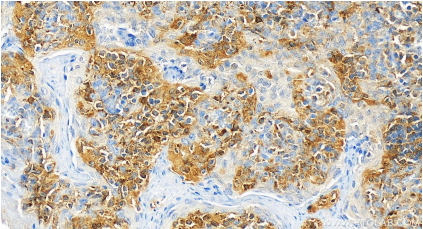
WB result of SYK antibody (66721-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SYK transfected Raji cells.



THP-1 (WT and SYK KO) lysates prepared with RIPA buffer, 30  $\mu$ g 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.



MDA-MB-231 lysates prepared and IP of SYK performed using 2.0  $\mu$ g 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).