

For Research Use Only

SYK Monoclonal antibody

Catalog Number: 66721-1-Ig

Featured Product

6 Publications



Basic Information

Catalog Number:

66721-1-Ig

Size:

150ul, Concentration: 2200 ug/ml by
Nanodrop and 1000 ug/ml by Bradford
method using BSA as the standard;

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

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

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
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

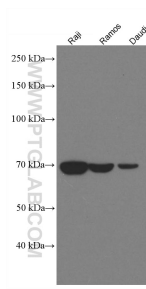
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

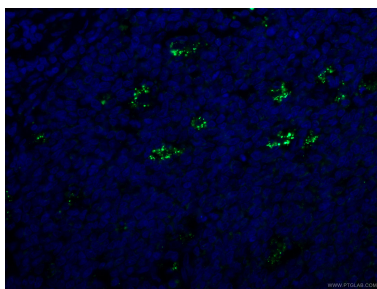
E: proteintech@ptglab.com
W: ptglab.com

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

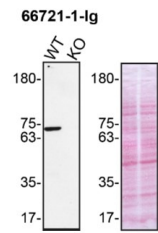
Selected Validation Data



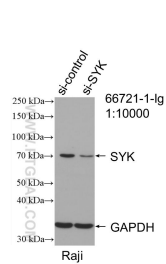
Various lysates were subjected to SDS PAGE followed by western blot with 66721-1-Ig (SYK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



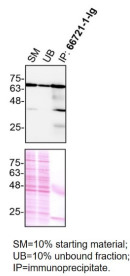
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66721-1-Ig (SYK antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



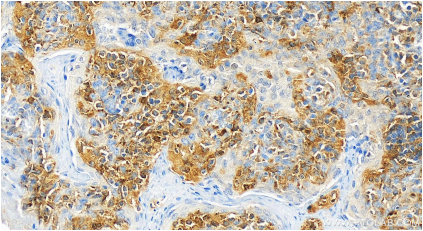
THP-1 (WT and SYK KO) lysates prepared with RIPA buffer, 30 µg protein loaded. 66721-1-Ig incubated at 1:500 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific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