

For Research Use Only

SYK Monoclonal antibody

Catalog Number: 66721-1-Ig

Featured Product

2 Publications



Basic Information

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

Applications

Tested Applications:

FC, IF, IP, WB, ELISA

Cited Applications:

WB

Species Specificity:

Human

Cited Species:

human, mouse

Positive Controls:

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

IF : 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

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

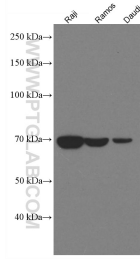
For technical support and original validation data for this product please contact:

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

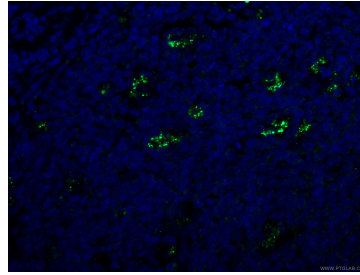
E: proteintech@ptglab.com
W: ptglab.com

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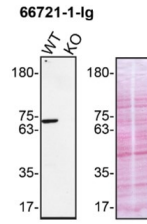
Selected Validation Data



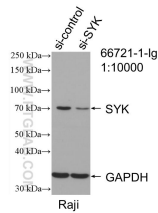
Various lysates were subjected to SDS PAGE followed by western blot with 66721-1-Ig (SYK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



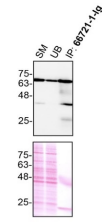
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66721-1-Ig (SYK antibody), at dilution of 1:100 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



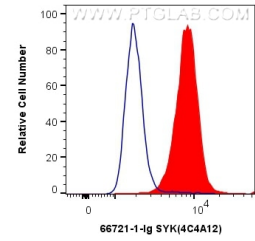
THP-1 (WT and SYK KO) lysates prepared with RIPA buffer, 30 µg protein loaded. 66721-1-Ig incubated at 1:500 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific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



1x10⁶ K-562 cells were intracellularly stained with 0.4 µg Anti-Human SYK (66721-1-Ig, Clone:4C4A12) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 µg Mouse IgG2b Isotype Control (MPC-11) (65128-1-Ig, Clone: MPC-11) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).