

For Research Use Only

# SYK Monoclonal antibody, PBS Only

Catalog Number: 66721-1-PBS

Featured Product



## Basic Information

**Catalog Number:**

66721-1-PBS

**Size:**

100ug, Concentration: 1mg/ml by Nanodrop;

**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

## Applications

**Tested Applications:**

WB, IHC, IF-P, IP, ELISA

**Species Specificity:**

human

## 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)

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

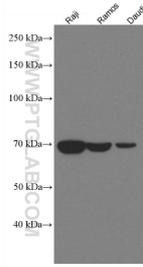
For technical support and original validation data for this product please contact:

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

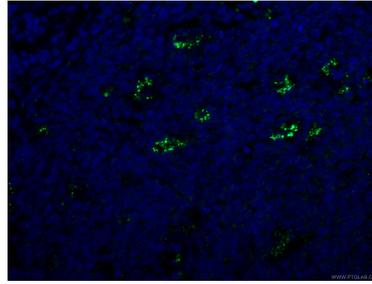
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

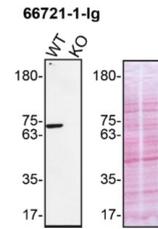
## Selected Validation Data



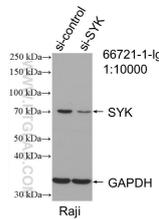
Various lysates were subjected to SDS PAGE followed by western blot with 66721-1-Ig (SYK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66721-1-PBS in a different storage buffer formulation.



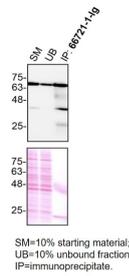
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66721-1-Ig (SYK antibody), at dilution of 1:100 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66721-1-PBS in a different storage buffer formulation.



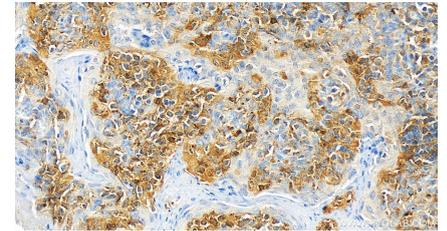
THP-1 (WT and SYK KO) lysates prepared with RIPA buffer, 30 µg protein loaded. 66721-1-Ig incubated at 1:500 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific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



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. This data was developed using the same antibody clone with 66721-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 66721-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66721-1-PBS in a different storage buffer formulation.