

For Research Use Only

# SYK Polyclonal antibody

Catalog Number: 14858-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

14858-1-AP

### Size:

150ul, Concentration: 800 ug/ml by Nanodrop and 433 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6657

### GenBank Accession Number:

BC001645

### GeneID (NCBI):

6850

### ENSEMBL Gene ID:

ENSG00000165025

### UNIPROT ID:

P43405

### Full Name:

spleen tyrosine kinase

### Calculated MW:

72 kDa

### Observed MW:

66-72 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IHC 1:400-1:1600

## Applications

### Tested Applications:

WB, IHC, FC (Intra), ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**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 : Daudi cells, Raji cells, Ramos cells

IHC : human liver cancer tissue, human appendicitis tissue, human spleen tissue, human kidney tissue, human ovary tissue

## Background Information

SYK belongs to the protein kinase superfamily, Tyr protein kinase family and SYK/ZAP-70 subfamily. It is positive effector of BCR-stimulated responses. SYK couples the B-cell antigen receptor (BCR) to the mobilization of calcium ion either through a phosphoinositide 3-kinase-dependent pathway, when not phosphorylated on tyrosines of the linker region, or through a phospholipase C-gamma-dependent pathway. It phosphorylates USP25 and regulates its intracellular levels. SYK also promotes liver fibrosis by activation of hepatic stellate cells and acts as a biomarker for human hepatocellular carcinoma. (PMID: 29537660) SYK can be detected 66-72 kDa in human and mouse (PMID: 37661351).

## Notable Publications

Author	Pubmed ID	Journal	Application
Le Pei	36359082	Animals (Basel)	WB
Quanwei Zhou	35910221	Front Genet	IHC
Yongliang Tong	39824395	Int J Biol Macromol	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

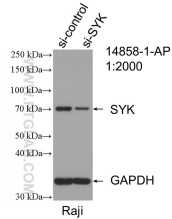
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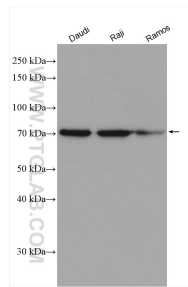
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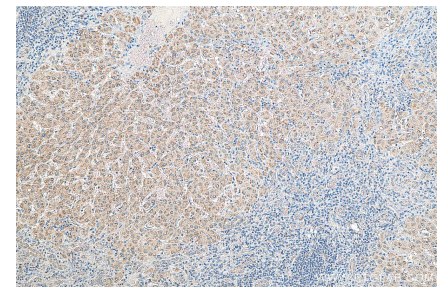
## Selected Validation Data



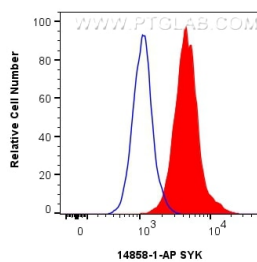
WB result of SYK antibody (14858-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SYK transfected Raji cells.



Various lysates were subjected to SDS PAGE followed by western blot with 14858-1-AP (SYK antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14858-1-AP (SYK antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  Ramos cells were intracellularly stained with 0.4 ug SYK Polyclonal antibody (14858-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).