

## Syk (PT0468R) PT® Rabbit mAb

CatalogNo: YM8302 **Recombinant** 

### Key Features

**Host Species**

- Rabbit

**Reactivity**

- Human, Mouse, Rat,

**Applications**

- WB, IHC, IF, IP, ELISA

**MW**

- 72kD (Calculated)
- 65kD (Observed)

**Isotype**

- IgG, Kappa

### Recommended Dilution Ratios

**IHC 1:400-1:1000****WB 1:2000-1:10000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

### Basic Information

**Clonality** Monoclonal**Clone Number** PT0468R

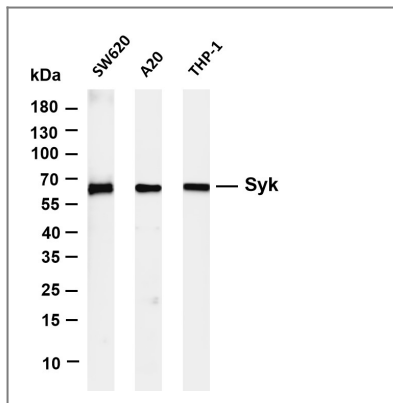
### Immunogen Information

**Specificity** Endogenous

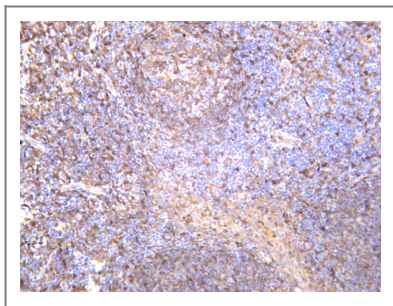
## | Target Information

Gene name	SYK		
Protein Name	Tyrosine-protein kinase SYK		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">6850</a> ;	<a href="#">P43405</a> ;
	Mouse	<a href="#">20963</a> ;	<a href="#">P48025</a> ;
	Rat	<a href="#">25155</a> ;	<a href="#">Q64725</a> ;
Cellular Localization	Membrane		
Tissue specificity	Widely expressed in hematopoietic cells (at protein level) (PubMed:8163536). Expressed in neutrophils (at protein level) (PubMed:15123770). Within the B-cell compartment, expressed from pro- and pre-B cells to plasma cells (PubMed:8163536).		
Function	Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,Function:Positive effector of BCR-stimulated responses. 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, when phosphorylated on Tyr-348 and Tyr-352. Thus the differential phosphorylation of Syk can determine the pathway by which BCR is coupled to the regulation of intracellular calcium ion.,PTM:Autophosphorylated.,PTM:Phosphorylation on Tyr-323 creates a binding site for c-Cbl, an adapter protein that serves as a negative regulator of BCR-stimulated calcium ion signaling.,PTM:Phosphorylation on Tyr-348 and Tyr-352 enhances the phosphorylation and activation of phospholipase C-gamma and the early phase of calcium ion mobilization via a phosphoinositide 3-kinase-independent pathway.,PTM:Ubiquitinated by CBLB after BCR activation; which promotes proteasomal degradation.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. SYK/ZAP-70 subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 2 SH2 domains.,subunit:Interacts with CBL and SLA when it is phosphorylated. The interaction with SLA may link it to CBL, leading to its destruction. Interacts with phosphorylated NFAM1 (By similarity). Interacts with Epstein-Barr virus LMP2A. Interacts through its SH2 domains with the phosphorylated ITAM domain of CD79A which stimulates SYK autophosphorylation and activation. Interacts with FCRL3.,		

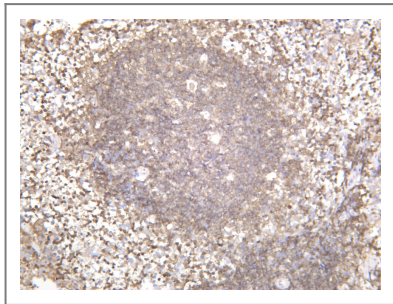
## | Validation Data



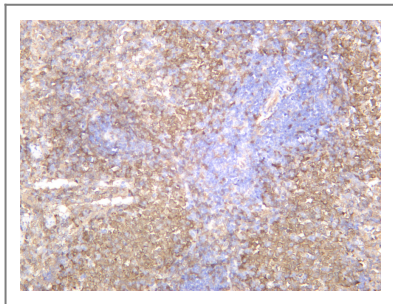
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Syk antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: SW620 Lane 2: A20 Lane 3: THP-1 Predicted band size: 72kDa Observed band size: 65kDa



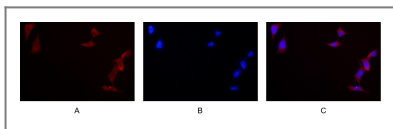
Human spleen was stained with anti-Syk rabbit antibody



Mouse spleen was stained with anti-Syk rabbit antibody



Rat spleen was stained with anti-Syk rabbit antibody



Immunofluorescence analysis of HEK293. Picture A: Syk antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

## Contact information

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Please scan the QR code to access additional product information:  
**Syk (PT0468R) PT®**  
**Rabbit mAb**

