

Syk Rabbit pAb

CatalogNo: YT4480

Orthogonal Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA, IHC

MW

- 72kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000**IHC 1:50-300****ELISA 1:2000-20000**

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from Syk . at AA range: 290-370**Specificity** Syk Polyclonal Antibody detects endogenous levels of Syk protein.

Target Information

Gene name SYK

Protein Name Tyrosine-protein kinase SYK

Organism	Gene ID	UniProt ID
Human	6850;	P43405;
Mouse	20963;	P48025;
Rat	25155;	Q64725;

Cellular Localization Cell membrane . Cytoplasm, cytosol .

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

Contact information

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