

Product Name: Syk (phospho Tyr323) Rabbit Polyclonal Antibody
Catalog #: APRab05496

Summary

| | |
|------------------------|---|
| Production Name | Syk (phospho Tyr323) Rabbit Polyclonal Antibody |
| Description | Rabbit Polyclonal Antibody |
| Host | Rabbit |
| Application | WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA |
| Reactivity | Human,Mouse,Rat |

Performance

| | |
|---------------------|--|
| Conjugation | Unconjugated |
| Modification | Phospho Antibody |
| Isotype | IgG |
| Clonality | Polyclonal |
| Form | Liquid |
| Storage | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| Buffer | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N. |
| Purification | Affinity purification |

Immunogen

| | |
|--------------------------|--|
| Gene Name | SYK |
| Alternative Names | SYK; Tyrosine-protein kinase SYK; Spleen tyrosine kinase; p72-Syk |
| Gene ID | 6850.0 |
| SwissProt ID | P43405.The antiserum was produced against synthesized peptide derived from human SYK around the phosphorylation site of Tyr323. AA range:289-338 |

Application

| | |
|-------------------------|---|
| Dilution Ratio | WB 1:500-1:2000, IHC-P 1:100-1:300, IF-P/IF-F/ICC/IF 1:200-1:1000, ELISA 1:5000.Not yet tested in other applications. |
| Molecular Weight | 80kDa |

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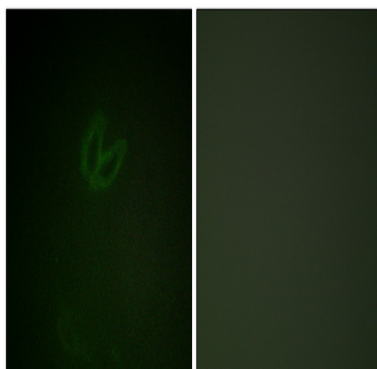
Background

This gene encodes a member of the family of non-receptor type Tyr protein kinases. This protein is widely expressed in hematopoietic cells and is involved in coupling activated immunoreceptors to downstream signaling events that mediate diverse cellular responses, including proliferation, differentiation, and phagocytosis. It is thought to be a modulator of epithelial cell growth and a potential tumour suppressor in human breast carcinomas. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010], 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.,

Research Area

Natural killer cell mediated cytotoxicity; B_Cell_Antigen; Fc epsilon RI; Fc gamma R-mediated phagocytosis;

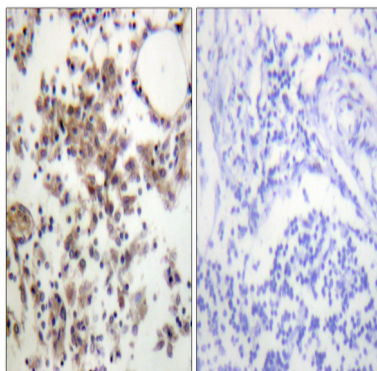
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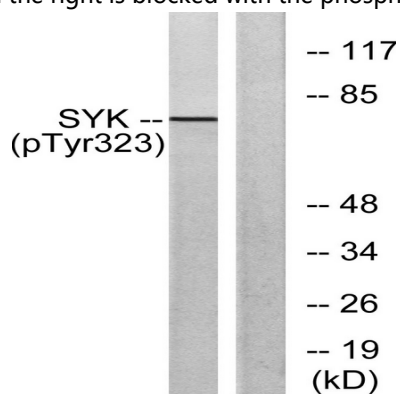
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Immunofluorescence analysis of HepG2 cells, using SYK (Phospho-Tyr323) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human lymph node, using SYK (Phospho-Tyr323) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HT29 cells, using SYK (Phospho-Tyr323) Antibody. The lane on the right is blocked with the phospho peptide.

Note

For research use only.