

Product Name: Syk (phospho Tyr525) Rabbit Polyclonal Antibody
Catalog #: APRab05499

Summary

Production Name	Syk (phospho Tyr525) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,IF,ELISA
Reactivity	Human,Mouse,Rat,Monkey

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 Tyr525. AA range:491-540

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
Molecular Weight	72kD

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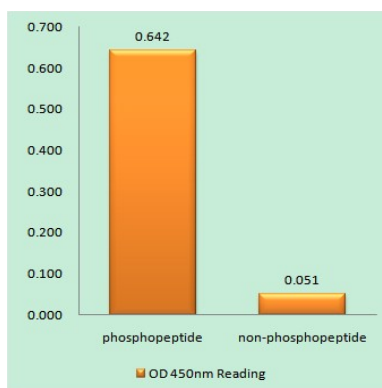
Background

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;

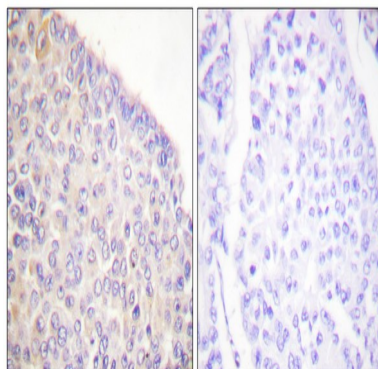
Image Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-

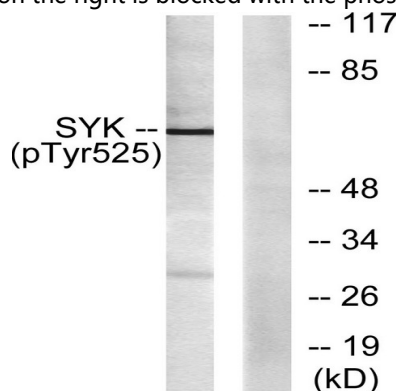
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Phosphopeptide (Phospho-right) , using SYK (Phospho-Tyr525) Antibody

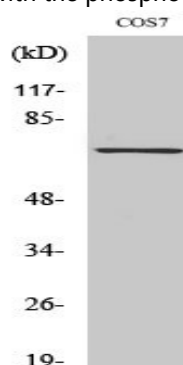


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using SYK (Phospho-Tyr525) Antibody.

The picture on the right is blocked with the phospho peptide.

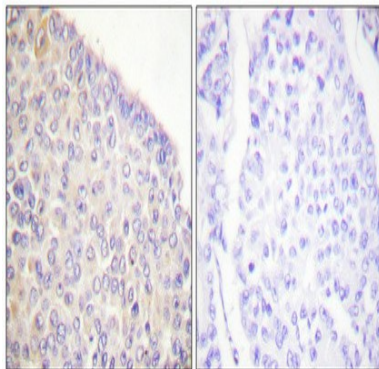


Western blot analysis of lysates from A549 cells, using SYK (Phospho-Tyr525) Antibody. The lane on the right is blocked with the phospho peptide.

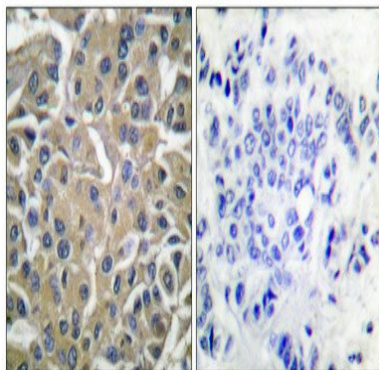


Western Blot analysis of various cells using Phospho-Syk (Y525) Polyclonal Antibody

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Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4°,overnight) . High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4°,overnight) . High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.

Note

For research use only.