Syk (Phospho Tyr525) Rabbit pAb

CatalogNo: YP0615 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,Monkey

Applications
- WB,IHC,IF,ELISA

MW
- 72kD (Observed)

Isotype
- IgG

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.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:20000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human SYK around the phosphorylation site of Tyr525. AA range:491-540

Specificity Phospho-Syk (Y525) Polyclonal Antibody detects endogenous levels of Syk protein only when phosphorylated at Y525.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):ENyYK

Target Information

Gene name SYK

Protein Name Tyrosine-protein kinase SYK

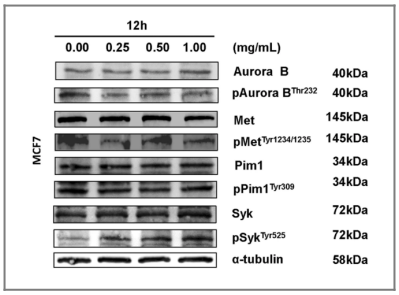
Organism	Gene ID	UniProt ID
Human	6850;	P43405;
Mouse	20963;	P48025;
Rat	25155;	Q64725;

Cellular Localization Cell membrane . Cytoplasm , cytosol .

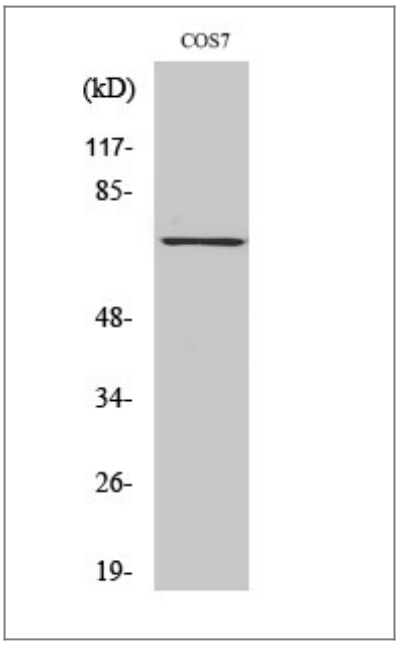
Tissue specificity Widely expressed in hematopoietic cells (at protein level) (PubMed:8163536) . Expressed in neutrophils (at protein level) (PubMed:15123770) . Within the B-cell compartment , expressed from pro- and pre-B cells to plasma cells (PubMed:8163536) .

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. ,

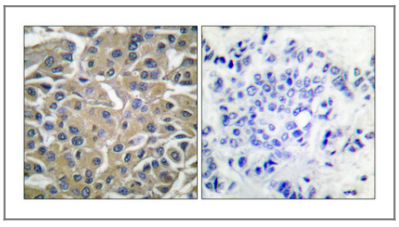
Validation Data



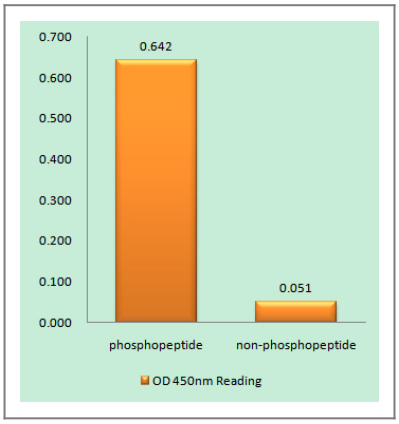
Wang, T., Liang, L., Zhao, C. et al. Elucidating direct kinase targets of compound Danshen dropping pills employing archived data and prediction models. Sci Rep 11, 9541 (2021).



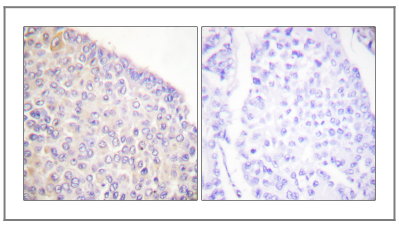
Western Blot analysis of various cells using Phospho-Syk (Y525) Polyclonal Antibody



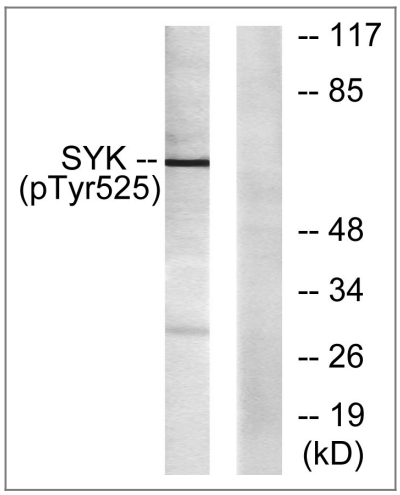
Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4℃ overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



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

Contact information

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Please scan the QR code to access additional product information:
Syk (Phospho Tyr525) Rabbit pAb

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