SYK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Syk, Polyclonal Antibody
Full Product Name	Syk (Phospho-Tyr352) Rabbit Polyclonal Antibody
Product Gene Name	anti-SYK antibody
Product Synonym Names	SYK; Tyrosine-protein kinase SYK; Spleen tyrosine kinase; p72-Syk; BH6842; Tyrosine-protein kinase SYK
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	Phospho-Syk (Y352) Polyclonal Antibody detects endogenous levels of Syk protein only when phosphorylated at Y352.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	72,066 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (93564012..93660842). Location: 9q22
OMIM	600085
3D Structure	ModBase 3D Structure for P43405
Immunogen	Synthesized phospho-peptide around the phosphorylation site of human Syk (phospho Tyr352)
Modification	Phospho Specific
Applications Tested/Suitable for anti-SYK antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-SYK antibody	WB: 1/500-1/2000 ELISA: 1/10000
Related Product Information for anti-SYK antibody	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]
Other Notes	Small volumes of anti-SYK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SYK purchase	MBS9511938 is an antibody targeting SYK. Also known as Syk (Phospho-Tyr352) Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYK. It may not necessarily be applicable to this product.

NCBI GI #	205277435
NCBI GeneID	6850
NCBI Accession #	NP_001128524.1
UniProt Primary Accession #	P43405
UniProt Related Accession #	P43405
GenBank Nucleotide #	NM_001135052.2
NCBI Official Full Name	tyrosine-protein kinase SYK isoform 2
NCBI Official Synonym Full Names	spleen tyrosine kinase
NCBI Official Symbol	SYK
NCBI Official Synonym Symbols	p72-Syk
UniProt Protein Name	Tyrosine-protein kinase SYK
UniProt Synonym Protein Names	Spleen tyrosine kinase; p72-Syk
Protein Family	Tyrosine-protein kinase
UniProt Gene Name	SYK
UniProt Entry Name	KSYK_HUMAN
NCBI Protein Information	tyrosine-protein kinase SYK
UniProt Comments for SYK	Syk: a cytoplasmic tyrosine kinase of the SYK family containing two SH2 domains. Plays a central role in the B cell receptor (BCR) response. An upstream activator of the PI3K, PLCgamma2, and Rac/cdc42 pathways in the BCR response. Required for the sequential events of Fc gamma IIa receptor-mediated phagocytosis. Expression highest in murine spleen, heart, mammary gland and thymus. Two splice variant isoforms have been described. Protein type: Protein kinase, TK; Protein kinase, tyrosine (non-receptor); Kinase, protein; EC 2.7.10.2; TK group; Syk family Chromosomal Location of Human Ortholog: 9q22 Cellular Component: T cell receptor complex; extrinsic to internal side of plasma membrane; protein complex; cytoplasm; plasma membrane; nucleus; cytosol; B cell receptor complex Molecular Function: integrin binding; protein serine/threonine kinase activity; protein binding; protein-tyrosine kinase activity; non-membrane spanning protein tyrosine kinase activity; receptor signaling protein tyrosine kinase activity; protein kinase binding; ATP binding; protein kinase activity Biological Process: viral reproduction; transcription factor import into nucleus; positive regulation of interleukin-3 biosynthetic process; positive regulation of granulocyte macrophage colony-stimulating factor biosynthetic process; positive regulation of calcium-mediated signaling; regulation of phagocytosis; protein amino acid phosphorylation; activation of JNK activity; leukocyte adhesion; B cell receptor signaling pathway; regulation of transcription factor activity; positive regulation of bone resorption; beta selection; positive regulation of gamma-delta T cell differentiation; angiogenesis; inflammatory response; integrin-mediated signaling pathway; neutrophil chemotaxis; platelet activation; adaptive immune response; regulation of superoxide release; positive regulation of cell adhesion mediated by integrin; positive regulation of mast cell degranulation; regulation of neutrophil degranulation; leukotriene biosynthetic process; cell proliferation; organ morphogenesis; neutrophil activation during immune response; positive regulation of peptidyl-tyrosine phosphorylation; leukocyte activation during immune response; serotonin secretion by platelet; defense response to bacterium; macrophage activation during immune response; positive regulation of B cell differentiation; blood vessel morphogenesis; innate immune response; positive regulation of alpha-beta T cell proliferation; blood coagulation; lymph vessel development; positive regulation of alpha-beta T cell differentiation; transmembrane receptor protein tyrosine kinase signaling pathway; positive regulation of cytokine secretion
Research Articles on SYK	**1.** PKA is a novel substrate of Syk, and its phosphorylation on Tyr-330 inhibits its participation in downstream signaling pathways.

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