SYKB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Syk (Sykb), Polyclonal Antibody
Full Product Name	Syk, phosphorylated (Tyr323)
Product Gene Name	anti-Sykb antibody
Product Synonym Names	Anti -Syk, phosphorylated (Tyr323)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS (without Mg2+ and Ca2+), 1mg/ml BSA (IgG, protease free), pH 7.2, 0.05% sodium azide, 50% glycerol.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human Syk when phosphorylated at Tyr323. Species sequence homology: Mouse Syk phosphorylated at Tyr317 (79%).
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage, store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	71,376 Da
Chromosome Location	Chromosome: 13; NC_000079.5 (52692251..52744161). Location: 13 B-C2; 13 37.0 cM
3D Structure	ModBase 3D Structure for P48025
Immunogen	Synthetic phosphopeptide derived from a region of human Syk that contains tyrosine 323 (tyrosine 317 in the mouse sequence).
Positive Control	Jurkat cells treated with H2O2
Product Categories/Family for anti-Sykb antibody	Antibodies; Abs to Tyrosine Kinases
Applications Tested/Suitable for anti-Sykb antibody	Western Blot (WB)
Application Notes for anti-Sykb antibody	Suitable for use in Western Blot. Dilution: Western Blot: 1:1000 Optimal dilution to be determined by the researcher.
Related Product Information for anti-Sykb antibody	Syk (72kD) is a non-receptor protein tyrosine kinase that plays a central role in immune receptor signal transduction and is implicated in endothelial cell functions, including cell growth and migration. Syk is activated upon binding to immunoreceptor tyrosine-based activating motif (ITAM) and involved in coupling activated immunoreceptors to downstream signaling. Syk undergoes phosphorylation on multiple tyrosines within the linker region that separates the Cterminal catalytic domain from the N-terminal SH2 domains (tyrosines 323, 348 and 352 or 317, 342 and 346 using the mouse sequence). The phosphorylation of Syk tyrosine 323 - a Cbl binding site - mediates Cbl-induced negative regulation of Syk.
Other Notes	Small volumes of anti-Sykb 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 Sykb purchase	MBS627160 is an antibody targeting Sykb. Also known as Syk, phosphorylated (Tyr323). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	818861
NCBI GeneID	20963
UniProt Primary Accession #	P48025
UniProt Related Accession #	P48025; Q3UPF7; Q3V3Q2; Q6P1E0
NCBI Official Full Name	SYK
NCBI Official Synonym Full Names	spleen tyrosine kinase
NCBI Official Symbol	Sykb
NCBI Official Synonym Symbols	Syk
UniProt Protein Name	Tyrosine-protein kinase SYK
UniProt Synonym Protein Names	Spleen tyrosine kinase
Protein Family	Tyrosine-protein kinase
UniProt Gene Name	Syk
UniProt Synonym Gene Names	Sykb
UniProt Entry Name	KSYK_MOUSE
NCBI Protein Information	tyrosine-protein kinase SYK; OTTMUSP00000041832

UniProt Comments for Sykb	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, tyrosine (non-receptor); Kinase, protein; Protein kinase, TK; EC 2.7.10.2; TK group; Syk family Cellular Component: T cell receptor complex; extrinsic to internal side of plasma membrane; protein complex; membrane; cell; cytoplasm; plasma membrane; intracellular; cytoplasmic vesicle; nucleus; B cell receptor complex Molecular Function: protein domain specific binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; receptor signaling protein tyrosine kinase activity; protein kinase binding; protein kinase activity; integrin binding; transferase activity; protein serine/threonine kinase activity; protein binding; protein-tyrosine kinase activity; transferase activity, transferring phosphorus-containing groups; kinase activity; ATP binding; receptor binding Biological Process: peptidyl-tyrosine phosphorylation; transcription factor import into nucleus; activation of MAPK activity; protein amino acid autophosphorylation; 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; enzyme linked receptor protein signaling pathway; serotonin secretion; activation of JNK activity; leukocyte adhesion; B cell receptor signaling pathway; cell surface receptor linked signal transduction; regulation of transcription factor activity; positive regulation of bone resorption; beta selection; angiogenesis; positive regulation of gamma-delta T cell differentiation; integrin-mediated signaling pathway; neutrophil chemotaxis; adaptive immune response; regulation of immune response; cell migration; regulation of superoxide release; immune system process; positive regulation of cell adhesion mediated by integrin; positive regulation of mast cell degranulation; regulation of neutrophil degranulation; leukotriene biosynthetic process; G-protein coupled receptor protein signaling pathway; peptidyl-serine phosphorylation; neutrophil activation during immune response; positive regulation of peptidyl-tyrosine phosphorylation; serotonin secretion by platelet; leukocyte activation during immune response; macrophage activation during immune response; defense response to bacterium; innate immune response; positive regulation of B cell differentiation; blood vessel morphogenesis; positive regulation of alpha-beta T cell proliferation; lymph vessel development; phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway; positive regulation of alpha-beta T cell differentiation; positive regulation of cytokine secretion
Research Articles on Sykb	**1.** Syk mediated chemotaxis toward CX3CL1 by regulating both Rac1/WAVE2 and Cdc42/WASP pathways, whereas Src family kinases were required for proper WASP tyrosine phosphorylation.
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