SYK/ZAP70 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SYK/ZAP70, Polyclonal Antibody
Full Product Name	Phospho-SYK-Y352/ZAP70-Y319 Rabbit pAb
Product Gene Name	anti-SYK/ZAP70 antibody
Product Synonym Names	Phospho-Syk-Y352/ZAP70-Y319
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	72kDa
OMIM	600085
3D Structure	ModBase 3D Structure for P43405
Immunogen	A phospho specific peptide corresponding to residues surrounding Y352 of human Syk and Y319 of human ZAP70
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SYK/ZAP70 antibody	Western Blot (WB)
Application Notes for anti-SYK/ZAP70 antibody	WB: 1:500-1:2000
Related Product Information for anti-SYK/ZAP70 antibody	MBS8550635 is an antibody targeting SYK/ZAP70. Also known as Phospho-SYK-Y352/ZAP70-Y319 Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-SYK/ZAP70 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYK/ZAP70. 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 Secondary Accession #	P43403
UniProt Related Accession #	P43405

GenBank Nucleotide #	NP_001128524.1
NCBI Official Full Name	tyrosine-protein kinase SYK isoform Syk(S)
NCBI Official Synonym Full Names	spleen associated 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
UniProt Gene Name	SYK
UniProt Entry Name	KSYK_HUMAN
NCBI Protein Information	tyrosine-protein kinase SYK
NCBI Summary for SYK/ZAP70	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]
UniProt Comments for SYK/ZAP70	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/ZAP70	**1.** NF-kappaB and Syk signaling pathways are instrumental for cancer progression. (Review)

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