

Recombinant Human Spleen Tyrosine Kinase, GST-tagged, Active

Cat. No. SYK-439H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SYK was expressed by baculovirus in <i>Sf9</i> insect cells using an N-terminal GST tag. MW = 100 kDa.
Species	Human
Source	Sf9 Cells
Description	SYK is a non-receptor protein tyrosine kinase that is widely expressed in hematopoietic cells. It is involved in coupling activated immunoreceptors to downstream signaling events that mediate diverse cellular responses, including proliferation, differentiation, and phagocytosis. In B cells, SYK plays a crucial role in intracellular signal transduction induced by oxidative stress as well as antigen receptor engagement. SYK has been shown to act as a potential tumor suppressor in breast cancer. Absence of SYK protein in primary breast tumors is correlated with poor outcomes. SYK deficient cells have increased motility that is restored to normalcy by replacement with wild-type SYK.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	SYK spleen tyrosine kinase [Homo sapiens]
Synonyms	SYK; spleen tyrosine kinase; FLJ25043; FLJ37489; DKFZp313N1010; OTTHUMP00000021628; OTTHUMP00000021629; EC 2.7.10.2; Tyrosine-protein kinase SYK
Gene ID	6850
mRNA Refseq	NM_001135052
Protein Refseq	NP_001128524
MIM	600085
UniProt ID	P43405
Chromosome Location	9q22
Pathway	B cell receptor signaling pathway; Fc epsilon RI signaling pathway; Fc gamma R-mediated phagocytosis; Natural killer cell mediated cytotoxicity
Function	ATP binding; integrin binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein domain specific binding; receptor signaling protein tyrosine kinase activity; transferase activity

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