

## Active Recombinant Human SYK, GST-tagged

Cat. No. SYK-1491H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human SYK was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full length
<b>Description</b>	<p>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.</p>
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
<b>Bio-activity</b>	92nmol/min/mg
<b>Molecular Mass</b>	~100kDa

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<b>Purity</b>	>90%
<b>Applications</b>	Kinase Assay, Western Blot
<b>Storage</b>	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 µg/µl
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	SYK spleen tyrosine kinase [ Homo sapiens ]
<b>Official Symbol</b>	SYK
<b>Synonyms</b>	SYK; spleen tyrosine kinase; tyrosine-protein kinase SYK; p72-Syk; FLJ25043; FLJ37489; DKFZp313N1010;
<b>Gene ID</b>	6850
<b>mRNA Refseq</b>	NM_001135052
<b>Protein Refseq</b>	NP_001128524
<b>MIM</b>	600085
<b>UniProt ID</b>	P43405
<b>Chromosome Location</b>	9q22
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Alpha-synuclein signaling,

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organism-specific biosystem; Antigen Activates B Cell Receptor Leading to Generation of Second Messengers, organism-specific biosystem; Atypical NF-kappaB pathway, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosystem;

**Function**

ATP binding; integrin binding; non-membrane spanning protein tyrosine kinase activity; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein binding; protein domain specific binding; protein kinase activity; protein kinase binding; receptor signaling protein tyrosine kinase activity;

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