

Active Recombinant Human SYK protein, His-tagged

Cat. No. SYK-307H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SYK protein(Asp374~Asn635), fused with His tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asp374~Asn635
Form	20mM Tris, 150mM NaCl, pH8.0, containing 0.05% sarcosyl and 5% trehalose.
Bio-activity	Spleen Tyrosine Kinase (SYK) is a member of the SYK family of tyrosine kinases. These non-receptor cytoplasmic tyrosine kinases share a characteristic dual SH2 domain separated by a linker domain. Within B and T cells respectively, SYK and Zap-70 transmit signals from the B-Cell receptor and T-Cell receptor. SYK plays a similar role in transmitting signals from a variety of cell surface receptors including CD74, Fc Receptor, and integrins. Besides, Sialic Acid Binding Ig Like Lectin 1(SIGLEC2) has been identified as an interactor of SYK, thus a binding ELISA assay was conducted to detect the interaction of recombinant human SYK and recombinant human SIGLEC2. Briefly, SYK were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μ were then transferred to SIGLEC2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-SYK pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the

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addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately.

Molecular Mass	34kDa as determined by SDS-PAGE reducing condition.
Endotoxin	<1.0EU per 1µg (determined by the LAL method.
Purity	>95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	SYK spleen tyrosine kinase [Homo sapiens]
Official Symbol	SYK
Synonyms	SYK; spleen tyrosine kinase; tyrosine-protein kinase SYK; p72-Syk; FLJ25043; FLJ37489; DKFZp313N1010
Gene ID	6850
mRNA Refseq	NM_001135052
Protein Refseq	NP_001128524
MIM	600085

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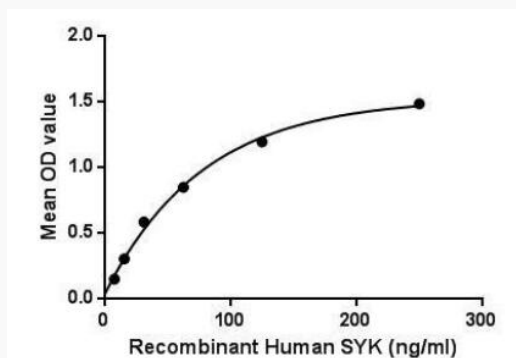
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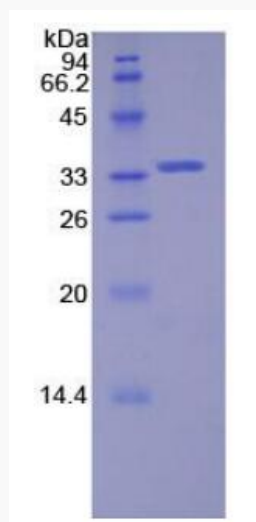
UniProt ID

P43405

Activity



SDS-PAGE



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