

Spleen Tyrosine Kinase Active Protein | SYK active protein

Active Spleen Tyrosine Kinase (SYK)

CATALOG #
AAA150134

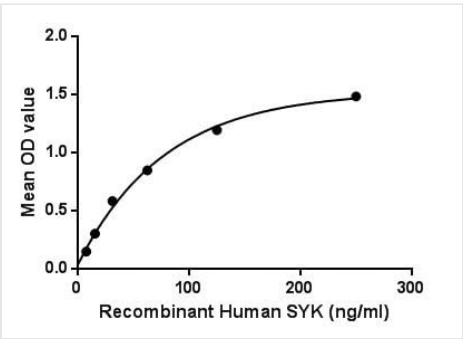
APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

Spleen Tyrosine Kinase; Active Spleen Tyrosine Kinase (SYK); p72-Syk; Spleen tyrosine kinase; SYK active protein

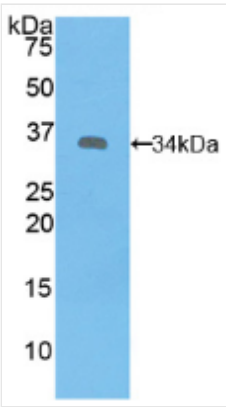
PRODUCT SPECIFICATIONS

Purity/Purification	>95%
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Asp374~Asn635
Sequence Length	612
Applicable Applications for SYK active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His Tag
Isoelectric Point	8.4
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

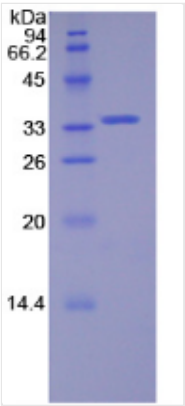


Bioactivity

Figure. The binding activity of SYK with SIGLEC2.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 100uL were then transferred to SIGLEC2-coated microtiter wells and incubated for 2h at 37. 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 addition of substrate solution, wells were incubated 15-25 minutes at 37. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of SYK and SIGLEC2 was shown in Figure 1, and this effect was in a dose dependent manner.



WB (Western Blot)
Figure. Western Blot



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for SYK active protein	Enzyme & Kinase
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NCBI AND UNIPROT INFORMATION

NCBI GI #	205277435
NCBI GeneID	6850
NCBI Accession #	NP_001128524.1
NCBI GenBank Nucleotide #	NP_001128524.1
UniProt Accession #	P43405

Molecular Weight	Predicted Molecular Mass: 34.0kDa Accurate Molecular Mass: 34kDa
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
NCBI Protein Information	tyrosine-protein kinase SYK
UniProt Protein Name	Tyrosine-protein kinase SYK
UniProt Gene Name	SYK
UniProt Entry Name	KSYK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/syk-active-protein/spleen-tyrosine-kinase/150134>