

Recombinant Human LCK Protein (SH3 Domain), GST tagged

Cat. No. LCK-174H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LCK Protein (SH3 Domain) with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene is a member of the Src family of protein tyrosine kinases (PTKs). The encoded protein is a key signaling molecule in the selection and maturation of developing T-cells. It contains N-terminal sites for myristylation and palmitoylation, a PTK domain, and SH2 and SH3 domains which are involved in mediating protein-protein interactions with phosphotyrosine-containing and proline-rich motifs, respectively. The protein localizes to the plasma membrane and pericentrosomal vesicles, and binds to cell surface receptors, including CD4 and CD8, and other signaling molecules. Multiple alternatively spliced variants encoding different isoforms have been described.
Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 33 kDa.
AA Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY YIDGDVKLTQSMAIIRYIADKHNLGGCPKERAIEISMLEGAVLDIRYGVSR IAYSKDFE TLKVDFLSKLP EMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA FPKLVCFKKRIEAI PQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLVPRGSLQD

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	NLVIALHSYEP SHDGLGF EKGEQLRILEQSGEWWKAQSLTTGQEGFIPNFVAKAN S
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile 50 mM Tris, pH8.0, 200 mM NaCl, 1mM DTT, 5% Mannitol, 5% Trehalose
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.42 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	LCK lymphocyte-specific protein tyrosine kinase [Homo sapiens]
Official Symbol	LCK
Synonyms	LCK; lymphocyte-specific protein tyrosine kinase; tyrosine-protein kinase Lck; leukocyte C-terminal Src kinase; p56(LSTRA) protein-tyrosine kinase; t cell-specific protein-tyrosine kinase; proto-oncogene tyrosine-protein kinase LCK; lymphocyte cell-specific protein-tyrosine kinase; T-lymphocyte specific protein tyrosine kinase p56lck; LSK; YT16; p56lck; pp58lck;
Gene ID	3932
mRNA Refseq	NM_001042771

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Protein Refseq	NP_001036236
MIM	153390
UniProt ID	P06239

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