

Active Recombinant Human LCK, His-tagged

Cat. No. LCK-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant Human LCK, His-tagged protein was expressed in E. coli and purified by affinity chromatography in combination with FPLC columns.
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 palmitylation, 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 the same protein, have been described.
Form	The protein is in 20mM Tris-HCl pH7.9, 100mM NaCl, 0.2mM EDTA, 1mM DTT and 20% glycerol.
Bio-activity	1 unit equals 1 nanogram of purified protein.
Molecular Mass	59.8 kDa.
AA Sequence	MGCGCSSHPE DDWMENIDVC ENCHYPIVPL DGKGTLLIRN GSEVRDPLVT

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YEGSNPPASP LQDNLVIALH SYEPSHDGDL GFEKGQQLRI LEQSGEWWKA
 QSLTTGQEGF IPFNFVAKAN SLEPEPWFFK NLSRKDAERQ LLAPGNTHGS
 FLIRESESTA GSFSLSVRDF DQNQGEVVKH YKIRNLDNGG FYISPRITFP
 GLHELVRHYT NASDGLCTRL SRPCQTQKPQ KPWWEDEWEV PRETLKLVER
 LGAGQFGEVW MGYYNHGTKV AVKSLKQGS SPDAFLAEAN LMKQLQHQL
 VRLYAVVTQE PIYIITEYME NGSLVDLKT PSGIKLTINK LLDMAAQIAE
 GMAFIEERNY IHRDLRAANI LVSDTLCKI ADFGLARLIE DNEYTAREGA
 KFPIKWTAP AINYGTFTIK SDVWSFGILL TEIVTHGRIP YPGMTNPEVI
 QNLERGYRMV RPDNCPEELY QLMRLCWKER PEDRPTFDYL RSVLEDDFTA
 TEGQYQPQP

Purity Greater than 90% as determined by SDS-PAGE.

Applications 10ng of LCK is sufficient to phosphorylate 1 ug of heat-inactivated nuclear or cytoplasmic extract at 30 C for 30 mins.

Storage Stored at -70°C before use. Avoid repeated freeze thaw cycles.

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

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mRNA Refseq	NM_005356
Protein Refseq	NP_005347
MIM	608131
UniProt ID	Q9H093
Chromosome Location	1q32.1
Function	ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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