Active Recombinant Human LCK, GST-tagged

Cat. No. LCK-1424H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human LCK was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	LCK (p56lck) is a member of the src family of non-receptor tyrosine kinases. It was identified as a gene rearranged and overexpressed in the murine lymphoma LSTRA, most likely as a result of the insertion of Moloney murine leukemia virus DNA immediately adjacent to the gene. Lck behaves as a proto-oncogene and can lead to cell transformation upon activation. A number of human cancer cell lines show overexpression of LCK, pointing to a possible role for this kinase in the initiation and maintenance of the transformed state in human cancers.
Form	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.
Bio-activity	239 nmol/min/mg
Molecular Mass	~84 kDa
Purity	>90%

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Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1μg/μl

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
Protein Refseq	NP_001036236
MIM	153390
UniProt ID	P06239
Chromosome Location	1p34.3

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Pathway	Adaptive Immune System, organism-specific biosystem; Alpha-synuclein signaling, organism-specific biosystem; Atypical NF-kappaB pathway, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; CD28 co-stimulation, organism-specific biosystem; CD28 dependent PI3K/Akt signaling, organism-specific biosystem; CD28 dependent Vav1 pathway, organism-specific biosystem;
Function	ATP binding; ATPase binding; CD4 receptor binding; CD8 receptor binding; SH2 domain binding; SH2 domain binding; antigen binding; glycoprotein binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; phosphatidylinositol 3-kinase binding; protein C-terminus binding; protein binding; protein complex binding; protein kinase binding; protein serine/threonine phosphatase activity; protein serine/threonine phosphatase activity; protein tyrosine kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity; protein tyrosine phosphatase activity;

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