

# Recombinant Human LCK

**Cat. No.** LCK-29218TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to the SH3 domain of Human Lck with N terminal proprietary tag; Predicted MWt 33kDa with tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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 palmylation, 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.
<b>Tissue specificity</b>	Expressed specifically in lymphoid cells.
<b>Form</b>	Lyophilised:Reconstitute within H2O bid.
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 50mM Potassium phosphate, 20mM Sodium chloride, pH 6.5(by mixing of potassium dihydrogen phosphate buffer (KH <sub>2</sub> PO <sub>4</sub> ) and

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	Dipotassium hydrogen phosphate buffer (K <sub>2</sub> HPO <sub>4</sub> ).
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -20oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily.Contains 1 protein kinase domain.Contains 1 SH2 domain.Contains 1 SH3 domain.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	LCK lymphocyte-specific protein tyrosine kinase [ Homo sapiens ]
<b>Official Symbol</b>	LCK
<b>Synonyms</b>	LCK; lymphocyte-specific protein tyrosine kinase; tyrosine-protein kinase Lck;
<b>Gene ID</b>	3932
<b>mRNA Refseq</b>	NM_001042771
<b>Protein Refseq</b>	NP_001036236
<b>MIM</b>	153390
<b>Uniprot ID</b>	P06239
<b>Chromosome Location</b>	1p34.3
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Alpha-synuclein signaling, organism-specific biosystem; Atypical NF-kappaB pathway, organism-specific

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biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; CD28 co-stimulation, organism-specific biosystem;

**Function**

ATP binding; ATPase binding; CD4 receptor binding; CD8 receptor binding; SH2 domain binding;

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