

Recombinant Human LCK

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

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to the SH3 domain of Human Lck with N terminal proprietary tag; Predicted MWt 33kDa with tag.
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.
Tissue specificity	Expressed specifically in lymphoid cells.
Form	Lyophilised:Reconstitute within H2O bid.
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 50mM Potassium phosphate, 20mM Sodium chloride, pH 6.5(by mixing of potassium dihydrogen phosphate buffer (KH ₂ PO ₄) and

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	Dipotassium hydrogen phosphate buffer (K ₂ HPO ₄).
Storage	Shipped on dry ice. Upon delivery aliquot and store at -20oC. Avoid freeze / thaw cycles.
Sequence Similarities	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.

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;
Gene ID	3932
mRNA Refseq	NM_001042771
Protein Refseq	NP_001036236
MIM	153390
Uniprot ID	P06239
Chromosome Location	1p34.3
Pathway	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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