

Recombinant Human LCK cell lysate

Cat. No. LCK-681HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Lck Kinase derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Insect Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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	reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

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

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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 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;