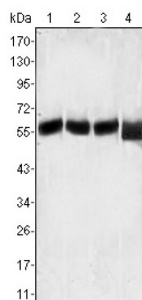


Proto-Oncogene Tyrosine-Protein Kinase LCK (LCK) Antibody

Catalogue No.: abx012318



Western blot analysis using LCK antibody against MOLT-4 (1), CCRF-CEM (2), CCRF-HSB-2 (3) and Jurkat (4) cell lysate.

Tyrosine kinase that plays an essential role for the selection and maturation of developing t-cell in the thymus and in mature t-cell function. is constitutively associated with the cytoplasmic portions of the cd4 and cd8 surface receptors and plays a key role in t-cell antigen receptor (tcr)-linked signal transduction pathways. association of the tcr with a peptide antigen-bound mhc complex facilitates the interaction of cd4 and cd8 with mhc class ii and class i molecules, respectively, and thereby recruits the associated lck to the vicinity of the tcr/cd3 complex. lck then phosphorylates tyrosines residues within the immunoreceptor tyrosines-based activation motifs (itams) in the cytoplasmic tails of the tcr gamma chains and cd3 subunits, initiating the tcr/cd3 signaling pathway. in addition, contributes to signaling by other receptor molecules. associates directly with the cytoplasmic tail of cd2, and upon engagement of the cd2 molecule, lck undergoes hyperphosphorylation and activation. also plays a role in the il2 receptor-linked signaling pathway that controls t-cell proliferative response. binding of il2 to its receptor results in increased activity of lck. is expressed at all stages of thymocyte development and is required for the regulation of maturation events that are governed by both pre-tcr and mature alpha beta tcr.

Target:	Proto-Oncogene Tyrosine-Protein Kinase LCK (LCK)
Clonality:	Monoclonal
Reactivity:	Human
Tested Applications:	ELISA, WB
Host:	Mouse
Recommended dilutions:	ELISA: 1/10000, WB: 1/500 - 1/2000. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	Purified recombinant fragment of human Lck expressed in E. coli.
Isotype:	IgG _{2a}
Form:	Liquid
Purification:	Unpurified ascites.

Datasheet

Version: 2.0.0

Revision date: 03 Oct 2025



Storage: Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

UniProt Primary AC: P06239 ([UniProt](#), [ExPASy](#))

Gene Symbol: LCK

GeneID: [3932](#)

OMIM: [153390](#)

HGNC: 6524

KEGG: hsa:3932

Ensembl: ENSG00000182866

String: [9606.ENSP00000337825](#)

Enzyme Commission Number: EC 2.7.10.2

Molecular Weight: 56 kDa

Buffer: Ascitic fluid containing 0.03% sodium azide.

Concentration: Not determined.

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.