# Lck Monoclonal Antibody

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| **Catalog No** | YP-Ab-14167 |
| **Isotype** | IgG |
| **Reactivity** | Human |
| **Applications** | WB;ELISA |
| **Gene Name** | LCK |
| **Immunogen** | Purified recombinant fragment of human Lck expressed in E. Coli. |
| **Specificity** | Lck Monoclonal Antibody detects endogenous levels of Lck protein. |
| **Formulation** | Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol. |
| **Source** | Monoclonal, Mouse |
| **Purification** | Affinity purification |
| **Dilution** | Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | 2D10C2;EC:2.7.10.2;Lck p56;Leukocyte C-terminal Src kinase;LSK;Lck; Tyrosine-protein kinase Lck;Lymphocyte cell-specific protein-tyrosine kinase; Protein YT16;Proto-oncogene Lck;T cell-specific protein-tyrosine kinase;p56-LCK |
| **Observed Band** | |
| **Calculated Molecular Weight** | |
| **Cell Pathway** | Cell membrane ; Lipid-anchor ; Cytoplasmic side . Cytoplasm, cytosol . Present in lipid rafts in an inactive form. . |
| **Tissue Specificity** | Expressed specifically in lymphoid cells. |
| **Function** | catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:A chromosomal aberration involving LCK is found in leukemias. Translocation t(1;7)(p34;q34) with TCRB.,domain:The SH2 domain mediates interaction with SQSTM1. Interaction is regulated by Ser-59 phosphorylation.,enzyme regulation:Inhibited by tyrosine phosphorylation., function: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 |

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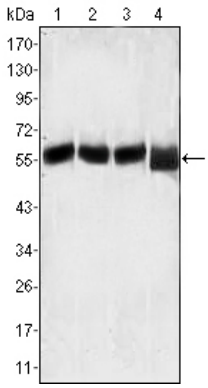
| | signal transduction pathways. Association of the TCR with a peptide antigen-bound MHC complex facilitates the interaction of CD4 and CD8 with MHC class II and class I molecules, respectively, and thereby recruits the associat |
| **Background** | This gene is a member of the Src family of protein 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 different isoforms have been described. [provided by RefSeq, Aug 2016], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images




Western Blot analysis using Lck Monoclonal Antibody against MOLT-4 (1), CCRF-CEM (2), CCRF-HSB-2 (3) and Jurkat (4) cell lysate.