

Lck(Phospho-Tyr394) Antibody

Catalog No: #11144

Package Size: #11144-1 50ul #11144-2 100ul

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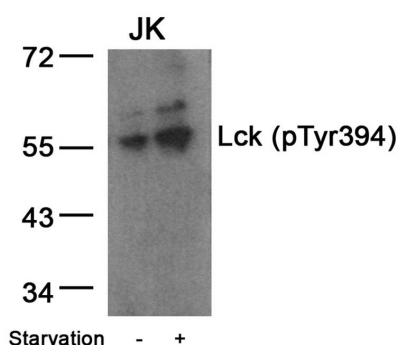
Description

Product Name	Lck(Phospho-Tyr394) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB;ICC/IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of Lck only when phosphorylated at tyrosine 394.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 394 (N-E-Y(p)-T-A) derived from Human Lck.
Conjugates	Unconjugated
Target Name	Lck
Modification	Phospho
Other Names	LCK; LSK; LSK-T; P56-LCK;
Accession No.	Swiss-Prot: P06239NCBI Protein: NP_001036236.1
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

WB 1:500-1:2000; ICC/IF 1:200-1:1000

Images



Western blot analysis of extracts from JK cells untreated or treated with starvation using Lck(Phospho-Tyr394) Antibody #11144.

Background

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 TCRgamma 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.

Heck E, et al. (2006) J Virol. Oct; 80(20): 9934-9942

Michie AM, et al. (2000) Mol Biol Cell. May; 11(5): 1585-1595

Published Papers

C. Annette Hollmann, Alexandar Tzankov, Verónica L. Martínez-Malignac et al., Therapeutic implications of Src independent calcium mobilization in diffuse large B-cell lymphoma, Leukemia Research, 34, 585-593(2010)

[PMID:19758698](#)

et al., Therapeutic implications of Src independent calcium mobilization in diffuse large B-cell lymphoma. In Leuk Res on 2010 May by C Annette Hollmann, Alexandar Tzankov, et al..PMID: 19758698

, , (2010)

[PMID:19758698](#)

et al., Allosteric noncompetitive small molecule selective inhibitors of CD45 tyrosine phosphatase suppress T-cell receptor signals and inflammation in vivo. In Mol Pharmacol on 2014 Apr by Michael D Perron, Shafinaz Chowdhury et al..PMID: 24473749, , (2014)

[PMID:24473749](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.