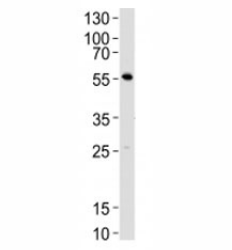
Lck Antibody (F43568)

Catalog No.	Formulation	Size
F43568-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F43568-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P06240
Applications	Western Blot : 1:1000
Limitations	This Lck antibody is available for research use only.



Western blot analysis of mouse thymus tissue lysate using Lck antibody at 1:1000. Predicted molecular weight ~58 kDa.

Description

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 (By similarity).

Application Notes

Titration of the Lck antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 20-47 from the mouse protein was used as the immunogen for this Lck antibody.

Storage

Aliquot the Lck antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.