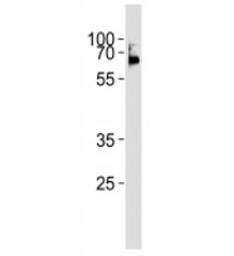
LCK Antibody (F48246)

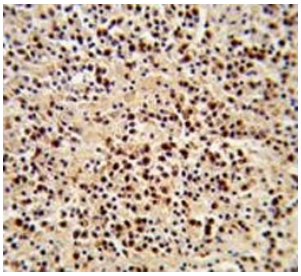
Catalog No.	Formulation	Size
F48246-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48246-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

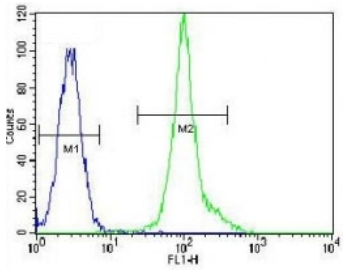
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P06239
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100 Flow Cytometry : 1:10-1:50
Limitations	This LCK antibody is available for research use only.



LCK antibody western blot analysis in Ramos lysate. Predicted molecular weight ~58 kDa.



LCK Antibody Lymphoma IHC. Immunohistochemistry analysis of FFPE human lymphoma stained with LCK antibody.



LCK Antibody HeLa Cell FACS. Flow cytometric analysis of human HeLa cells using LCK antibody demonstrates a distinct rightward shift of the LCK-positive population (green) relative to the negative control (blue), consistent with expression of LCK. LCK is a SRC family tyrosine kinase that functions as a critical initiator of T-cell receptor signaling and phosphorylation-dependent signal transduction pathways. As a key regulator of cellular signaling, LCK participates in kinase-mediated communication networks that influence cellular activation, downstream transcriptional responses, and adaptive immune signaling. The observed fluorescence shift supports the utility of this antibody for flow cytometric detection of LCK. FITC-conjugated goat anti-rabbit secondary antibody was used for signal detection.

Description

LCK is a member of the Src family of protein tyrosine kinases (PTKs). This 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.

Learn more about LCK function in T-cell receptor signaling, lymphocyte activation, adaptive immunity, and immune signal transduction on our LCK Antibody page.

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 480-509 from the human 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.