antibodies-online.com

Datasheet for ABIN94422

anti-LCK antibody (AA 22-36)

4 Images | 7 Publications

Go to Product page

Overview

Quantity:	0.1 mg
Target:	LCK
Binding Specificity:	AA 22-36
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LCK antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Peptide corresponding to amino acids 22-36 in the sequence of human Lck.
Clone:	LCK-01
Isotype:	IgG1
Specificity:	The antibody LCK-01 recognizes defined epitope (aa 22-36) of Lck, a 56 kDa Src-family protein tyrosine kinase (intracellular antigen).
No Cross-Reactivity:	Mouse
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	LCK
Alternative Name:	Lck (LCK Products)
Background:	LCK proto-oncogene, Src family tyrosine kinase,Lck is a Src-family tyrosine kinase, which is essential for signaling through the T-cell receptor (TCR) complex. Upon TCR triggering, Lck phosphorylates the ITAM motives in its zeta subunits, establishing binding sites for the SH2 domains of the tyrosine kinase ZAP70, which is also phosphorylated by Lck and thereby activated to generate subsequent signaling platforms by phosphorylation of adaptor LAT. Whereas the majority of Lck is localized to the plasma membrane, there is also a significant fraction associated with the Golgi apparatus, which may contribute to Raf activation under conditions of weak stimulation through the TCR. Lck is also involved in the regulation of apoptosis induced by various stimuli, but not by the death receptors.,p56Lck
Gene ID:	3932
UniProt:	P06239
Pathways:	TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Transition Metal Ion Homeostasis, Positive Regulation of Endopeptidase Activity, CXCR4-mediated Signaling Events, Thromboxane A2 Receptor Signaling

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL. Intracellular staining.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

Stepanek, Kalina, Draber, Skopcova, Svojgr, Angelisova, Horejsi, Weiss, Brdicka: "Regulation of Src family kinases involved in T cell receptor signaling by protein-tyrosine phosphatase CD148." in: **The Journal of biological chemistry**, Vol. 286, Issue 25, pp. 22101-12, (2011) (PubMed).

Hrdinka, Dráber, Stepánek, Ormsby, Otáhal, Angelisová, Brdicka, Paces, Horejsí, Drbal: "PRR7 is a transmembrane adaptor protein expressed in activated T cells involved in regulation of T cell receptor signaling and apoptosis." in: **The Journal of biological chemistry**, Vol. 286, Issue 22, pp. 19617-29, (2011) (PubMed).

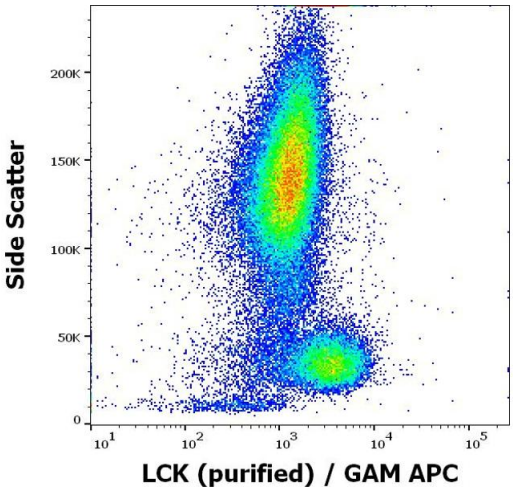
Ota: "The effects of membrane compartmentalization of Csk on TCR signaling." in: **Biochimica et biophysica acta**, (2010) (PubMed).

Meraner, Horejsí, Wolpl, Fischer, Stingl, Maurer: "Dendritic cells sensitize TCRs through self-MHC-mediated Src family kinase activation." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 178, Issue 4, pp. 2262-71, (2007) (PubMed).

Brdicková, Brdicka, Angelisová, Horváth, Spicka, Hilgert, Paces, Simeoni, Kliche, Merten, Schraven, Horejsí: "LIME: a new membrane Raft-associated adaptor protein involved in CD4 and CD8 coreceptor signaling." in: **The Journal of experimental medicine**, Vol. 198, Issue 10, pp. 1453-62, (2003) (PubMed).

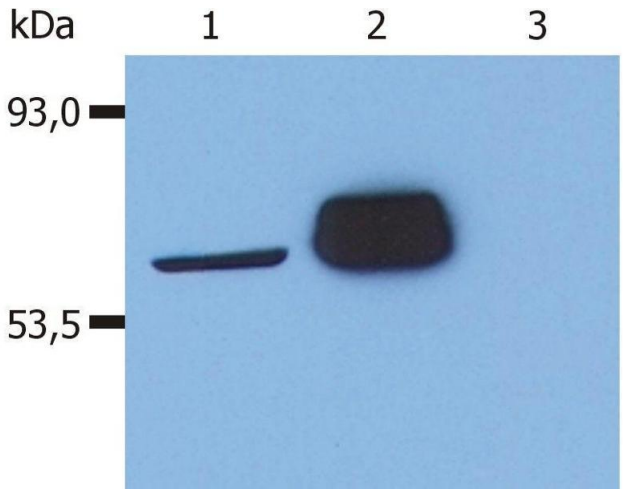
There are more publications referencing this product on: Product page

Images



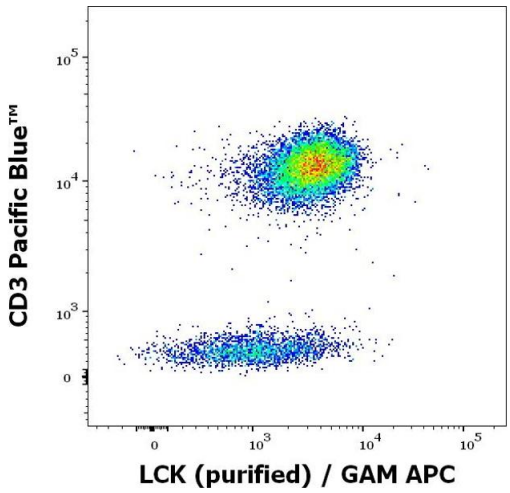
Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human peripheral whole blood using anti-LCK (LCK-01) purified antibody (concentration in sample 9 µg/mL, GAM APC).



Western Blotting

Image 2. Western Blotting analysis (reducing conditions) of human Lck in whole cell lysate using anti-human Lck (LCK-01). Lane 1: J. CaM-1.6 cell line (a mutant derivate of the JURKAT cell line) transfected with Lck Lane 2: HEK-293T cell line transfected with Lck Lane 3: HEK-293T cell line (non-transfected)



Flow Cytometry

Image 3. Flow cytometry multicolor intracellular staining of human peripheral whole blood stained using anti-LCK (LCK-01) purified antibody (concentration in sample 9 µg/mL, GAM APC) and anti-human CD3 (UCHT1) Pacific Blue antibody (20 µL reagent / 100 µL of peripheral whole blood).

Please check the product details page for more images. Overall 4 images are available for ABIN94422.

