

Datasheet for ABIN969257

## anti-LCK antibody



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### Overview

Quantity:	100 µL
Target:	LCK
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LCK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

### Product Details

Purpose:	Lck Antibody
Immunogen:	Purified recombinant fragment of human Lck expressed in E. Coli.
Clone:	8E5F9
Isotype:	IgG2a
Purification:	Ascitic fluid

### Target Details

Target:	LCK
Alternative Name:	Lck ( <a href="#">LCK Products</a> )
Background:	Lck (lymphocyte-specific protein tyrosine kinase), with 509-amino acid protein (about 56 kDa), belongs to the Src non-receptor tyrosine kinases family. By virtue of common structural motifs,

## Target Details

the Src family is composed of nine members in vertebrates, including Src, Yes, Fgr, Frk, Fyn, Lyn, Hck, Lck and Blk. Lck is expressed predominantly in T cells and is localized to the inner surface of the plasma membrane. Lck is activated after T cell stimulation and is required for T-cell proliferation and IL-2 production. Aberrant expression or activation of Lck kinase has been reported in both lymphoid and nonlymphoid malignancies. In addition, inhibition of Lck has been a target to prevent lymphocyte activation and acute rejection.

Molecular Weight: 56 kDa

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: ELISA: 1/10000

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % 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.

Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

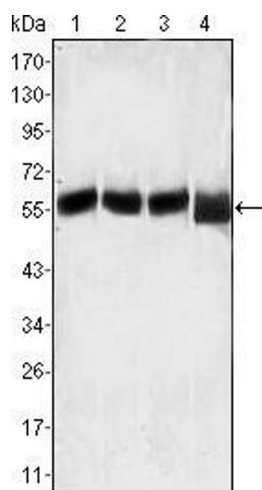
## Publications

Product cited in: Shi, Cooper, Yu: "A constitutively active Lck kinase promotes cell proliferation and resistance to apoptosis through signal transducer and activator of transcription 5b activation." in: **Molecular cancer research : MCR**, Vol. 4, Issue 1, pp. 39-45, (2006) ([PubMed](#)).

Stachlewitz, Hart, Bettencourt, Kebede, Schwartz, Ratnofsky, Calderwood, Waegell, Hirst: "A-770041, a novel and selective small-molecule inhibitor of Lck, prevents heart allograft rejection." in: **The Journal of pharmacology and experimental therapeutics**, Vol. 315, Issue 1, pp. 36-41, (2005) ([PubMed](#)).

Hawash, Kesavan, Magee, Geahlen, Harrison: "The Lck SH3 domain negatively regulates localization to lipid rafts through an interaction with c-Cbl." in: **The Journal of biological chemistry**, Vol. 277, Issue 7, pp. 5683-91, (2002) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** Western blot analysis using LCK mouse mAb against MOLT-4 (1), CCRF-CEM (2), CCRF-HSB-2 (3) and Jurkat (4) cell lysate.