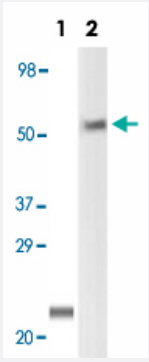
LCK monoclonal antibody, clone 8E5F9, 4B2C7

Catalog # MAB5528 Size 100 uL

Applications



Western Blot

Western blot analysis using LCK monoclonal antibody, clone 8E5F9, 4B2C7 (Cat # MAB5528) against truncated LCK recombinant protein (Lane 1) and Jurkat cell lysate (Lane 2).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant LCK.
Immunogen	Recombinant protein corresponding to human LCK.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG2a
Recommend Usage	Western Blot (1:500-1:2000) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

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Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot

  Western blot analysis using LCK monoclonal antibody, clone 8E5F9, 4B2C7 (Cat # MAB5528) against truncated LCK recombinant protein (Lane 1) and Jurkat cell lysate (Lane 2).

Gene Info — LCK

Entrez GeneID	3932
Gene Name	LCK
Gene Alias	YT16, p56lck, pp58lck
Gene Description	lymphocyte-specific protein tyrosine kinase
Omim ID	153390
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the Src family of protein tyrosine kinases (PTKs). The encoded protein i s a key signaling molecule in the selection and maturation of developing T-cells. It contains N-term inal 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. Multi ple alternatively spliced variants, encoding the same protein, have been described. [provided by RefSeq
Other Designations	T-lymphocyte specific protein tyrosine kinase p56lck|p56(LSTRA) protein-tyrosine kinase|protein t yrosine kinase|proto-oncogene tyrosine-protein kinase LCK

Publication Reference

- A constitutively active Lck kinase promotes cell proliferation and resistance to apoptosis through signal transducer and activator of transcription 5b activation.

  Shi M, Cooper JC, Yu CL.

  Molecular Cancer Research: MCR 2006 Jan; 4(1):39.

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- A-770041, a novel and selective small-molecule inhibitor of Lck, prevents heart allograft rejection.

  Stachlewitz RF, Hart MA, Bettencourt B, Kebede T, Schwartz A, Ratnofsky SE, Calderwood DJ, Waegell WO, Hirst GC.

  The Journal of Pharmacology and Experimental Therapeutics 2005 Oct; 315(1):36.

  Application: KA, Recombinant protein

- The Lck SH3 domain negatively regulates localization to lipid rafts through an interaction with c-Cbl.

  Hawash IY, Kesavan KP, Magee AI, Geahlen RL, Harrison ML.

  J Biol Chem 2001 Dec; 277(7):5683.

  Application: IP, WB-Tr, Human, J.CaM1, Jurkat cells

Pathway

- Natural killer cell mediated cytotoxicity
- Primary immunodeficiency
- T cell receptor signaling pathway

Disease

- HIV Infections
- Tobacco Use Disorder

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