

Datasheet for ABIN94426
anti-LIME antibody (AA 281-296)[2 Images](#)[2 Publications](#)[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	LIME (LIME1)
Binding Specificity:	AA 281-296
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LIME antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	COOH-terminal peptide comprising residues 281-296 of the human LIME conjugated to keyhole limpet hemocyanin.
Clone:	LIME-10
Isotype:	IgG2a
Specificity:	The antibody LIME-10 reacts with the cytoplasmic domain of LIME, a 30 kDa Lck-interacting transmembrane adaptor expressed by T cells.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	LIME (LIME1)
Alternative Name:	LIME (LIME1 Products)
Background:	Lck interacting transmembrane adaptor 1,LIME (Lck-interacting molecule) is a 30 kDa double-palmitoylated protein with unusually basic cytoplasmic domain, expressed by T cells. After ligation of CD4 or CD8 T cell coreceptors, LIME is phosphorylated by Src-family kinases and associates with Lck and Fyn kinases and with their negative regulator Csk. Interestingly, Csk-mediated phosphorylation of C-terminal negative-regulatory tyrosine of LIME-associated Lck can result in increase of enzymatic activity compared with the total pool of Lck, thus, LIME serves as a positive regulator of TCR-dependent T cell signaling. However, under some circumstances, LIME may mediate inhibitory signals.,LITA1
Gene ID:	54923
UniProt:	Q9H400

Application Details

Application Notes:	Immunohistochemistry (paraffin sections): Recommended dilution: 10 µg/mL.
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.

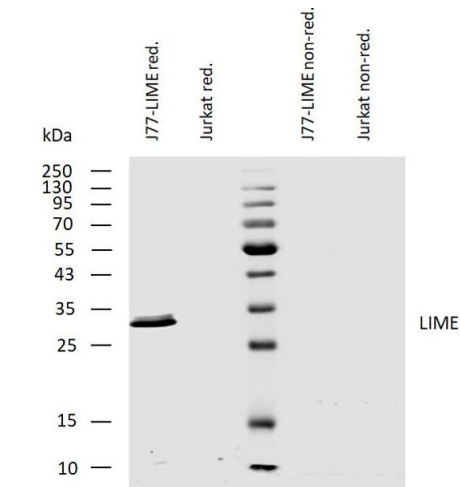
Publications

Product cited in:	Tedoldi, Paterson, Hansmann, Natkunam, Rüdiger, Angelisova, Du, Roberton, Roncador, Sanchez, Pozzobon, Masir, Barry, Pileri, Mason, Marafioti, Horejsi: "Transmembrane adaptor molecules: a new category of lymphoid-cell markers." in: Blood , Vol. 107, Issue 1, pp. 213-21, (
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2005) ([PubMed](#)).

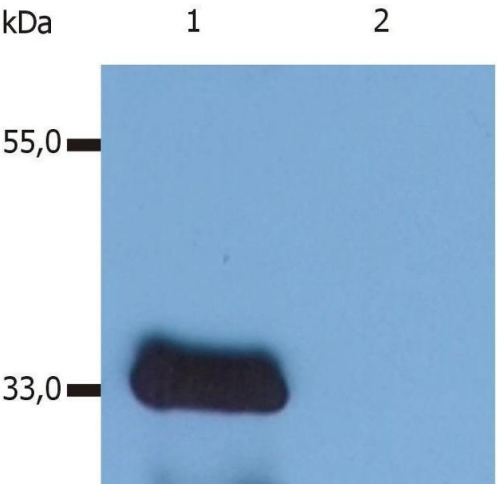
Brdicková, Brdicka, Angelisová, Horváth, Spicka, Hilgert, Paces, Simeoni, Kliche, Merten, Schraven, Horejsí: "LIME: a new membrane Raft-associated adaptor protein involved in CD4 and CD8 coreceptor signaling." in: **The Journal of experimental medicine**, Vol. 198, Issue 10, pp. 1453-62, (2003) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blotting analysis of human LIME using mouse monoclonal antibody LIME-10 on lysates of J77-LIME transfectants and Jurkat cells under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 1 µg/mL of mouse monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. LIME was detected around 30 kDa.



Western Blotting

Image 2. Western Blotting analysis (reducing conditions) of human LIME using anti-human LIME (LIME-10). Lane 1: J77 cell line transfected with LIME Lane 2: non-transfected J77 cell line (cells are essentially devoid of endogenous LIME expression)