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Datasheet for ABIN94424 anti-LIME antibody (AA 141-295)

5 Images

1 Publication



Overview

Quantity:	0.1 mg
Target:	LIME (LIME1)
Binding Specificity:	AA 141-295
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LIME antibody is un-conjugated
Application:	Immunoprecipitation (IP), Flow Cytometry (FACS)

Product Details

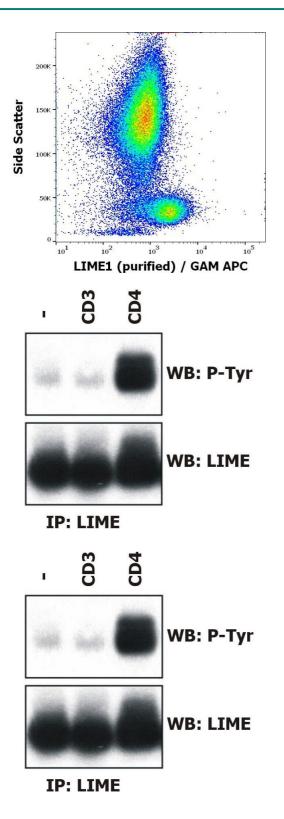
Immunogen:	Bacterially expressed intracellular fragment corresponding to aa 141-295 of human LIME.
Clone:	LIME-06
lsotype:	lgG1
Specificity:	The antibody LIME-06 was raised against intracellular fragment corresponding to aa 141-295 of human LIME, a 30 kDa Lck-interacting transmembrane adaptor expressed by T cells.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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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:	Flow cytometry: Recommended dilution: 8-12 μ g/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:	Brdicková, Brdicka, Angelisová, Horváth, Spicka, Hilgert, Paces, Simeoni, Kliche, Merten,
	Schraven, Horejsí: "LIME: a new membrane Raft-associated adaptor protein involved in CD4 ar
	CD8 coreceptor signaling." in: The Journal of experimental medicine, Vol. 198, Issue 10, pp.

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Images



Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human peripheral whole blood using anti-LIME1 (LIME-06) purified antibody (concentration in sample $9 \mu g/mL$, GAM APC).

Western Blotting

Image 2. Induction of LIME tyrosine phosphorylation. Peripheral blood T cells were left unstimulated (-) or stimulated with anti-human CD3 (MEM-92; cat. no. 11-381-C100) or anti-human CD4 (MEM-16; cat. no. 11-463-C100), and LIME was immunoprecipitated from laurylmaltoside lysates with the LIME-06 antibody (immunoaffinity sorbent) and analyzed by Western blotting to visualize tyrosinephosphorylated LIME (top) and total LIME (bottom).

Immunoprecipitation

Image 3. Induction of LIME tyrosine phosphorylation. Peripheral blood T cells were left unstimulated (-) or stimulated with anti-human CD3 (MEM-92, cat. no. (ABIN94065)) or anti-human CD4 (MEM-16, cat. no. (ABIN94103)), and LIME was immunoprecipitated from laurylmaltoside lysates with the LIME-06 antibody (immunoaffinity sorbent) and analyzed by Western blotting to visualize tyrosine-phosphorylated LIME (top) and total LIME (bottom).

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