

SP3002P**Polyclonal Antibody to LIME1 - Purified**

Alternate names:	LIME, LIME-1, LIME1, Lck-interacting membrane protein, Lck-interacting molecule, Lck-interacting transmembrane adapter 1
Quantity:	0.1 mg
Concentration:	1 mg/ml
Background:	LIME (Lck-interacting molecule) is a 31 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.
Uniprot ID:	Q9H400
NCBI:	NP_060276.2
GenelD:	54923
Host:	Rabbit
Immunogen:	Bacterially expressed recombinant fragment of mouse LIME
Format:	State: Liquid Ig fraction Purification: Protein-A affinity chromatography Buffer System: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Applications:	Immunoprecipitation. Western Blotting. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody reacts specifically with LIME (Lck-interacting molecule). Species: Mouse, does not work in human. Other species not tested.
Storage:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Horejsi V, Zhang W, Schraven B.: Transmembrane adaptor proteins: organizers of immunoreceptor signalling. Nat Rev Immunol. 2004 Aug;4(8):603-16. 2. Simeoni L, Smida M, Posevitz V, Schraven B, Lindquist JA.: Right time, right place: the organization of membrane proximal signaling. Semin Immunol. 2005 Feb;17(1):35-49. 3. Tedoldi S, Paterson JC, Hansmann ML, Natkunam Y, Rüdiger T, Angelisova P, Du MQ, Robertson H, Roncador G, Sanchez L, Pozzobon M, Masir N, Barry R, Pileri S, Mason DY, Marafioti T, Horejsi V.: Transmembrane adaptor molecules: a new category

of lymphoid-cell markers. Blood. 2006 Jan 1;107(1):213-21.

4. Brdickova N, Brdicka T, Angelisová P, Horváth O, Spicka J, Hilgert I, Paces J, Simeoni L, Kliche S, Merten C, Schraven B, Horejsi V. LIME: a new membrane Raft-associated adaptor protein involved in CD4 and CD8 coreceptor signaling. J Exp Med. 2003 Nov 17;198(10):1453-62.