

## Product datasheet for **AM12130PU-N**

### Lime1 (86-202) Mouse Monoclonal Antibody [Clone ID: mLIME-05]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	mLIME-05
Applications:	IP, WB
Recommended Dilution:	<b>Immunoprecipitation</b> (use murine splenic T cells as positive control). <b>Western blot:</b> 1-5 µg/ml (reducing conditions).
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant protein corresponding to amino acids 86-202 of mouse LIME
Specificity:	This antibody reacts with the cytoplasmic domain of LIME, a 30 kDa Lck-interacting transmembrane adaptor expressed mainly by T cells.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b>
Stability:	Shelf life: one year from despatch.
Gene Name:	Lck interacting transmembrane adaptor 1
Database Link:	<a href="#">Entrez Gene 72699 Mouse Q9EQR5</a>



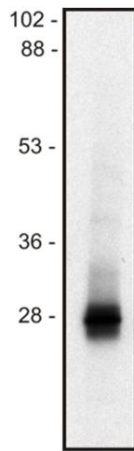
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**Background:**

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.

**Synonyms:**

LIME1, LIME, LIME-1, Lck-interacting membrane protein, Lck-interacting molecule, Lck-interacting transmembrane adapter 1

**Product images:**

Western blot of mouse thymocyte lysate (1% SDS); non-reduced sample, immunostained by mAb mLIME-05 and goat anti-mouse IgG (H+L)-HRP conjugate.