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# LIME Monoclonal Antibody (LIME-06), PE

**Catalog Number** **MA1-10398**

**Product data sheet**

| Details | |
|---|---|
| **Size** | 100 µg |
| **Host/Isotope** | Mouse / IgG1, kappa |
| **Class** | Monoclonal |
| **Type** | Antibody |
| **Clone** | LIME-06 |
| **Immunogen** | Bacterially expressed intracellular fragment corresponding to aa 141-295 of human LIME. |
| **Conjugate** | PE |
| **Form** | Liquid |
| **Concentration** | 0.1 mg/mL |
| **Purification** | Size-exclusion chromatography |
| **Storage buffer** | PBS, pH 7.4, with 0.2% BSA |
| **Contains** | 15mM sodium azide |
| **Storage Conditions** | 4° C, store in dark, DO NOT FREEZE! |

| Species Reactivity | |
|---|---|
| **Species reactivity** | Human |

| Tested Applications | Dilution * |
|---|---|
| **Flow Cytometry (Flow)** | 1-5 µg/mL |

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

## Background/Target Information

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.

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