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30-1236: Anti-LAT Monoclonal Antibody (Clone:LAT-01)

Clonality: Monoclonal **Clone Name:** LAT-01 WB Application: Reactivity: Human Gene: LAT Gene ID: 27040 **Uniprot ID:** 043561 Format: **Purified**

Alternative Name: Linker for activation of T-cells family member 1, 36 kDa phospho-tyrosine adapter protein,

p36-38

Isotype: Mouse IgG1

Immunogen Information: Bacterially produced recombinant polypeptide corresponding to the entire cytoplasmic

domain of human LAT.

Description

LAT (Linker for Activation of T cells) is a 36-38 kDa double-palmitoylated transmembrane adaptor protein expressed by T cells, pre-B cells, NK cells, mast cells and platelets. After immunoreceptor triggering, LAT becomes multiply tyrosine-phosphorylated by Syk-, Src-, or Tec-family kinases, providing docking sites for downstream signaling molecules. LAT is essential for TCR-dependent T cell- and FcepsilonRI-dependent mast cell activation, as well as for maturation of early thymocytes. It is also involved in NK cell signaling and platelet activation.

Product Info

Amount: 0.1 mg

Purification: Purified by protein-A affinity chromatography

Storage condition : Store at 2-8°C. Do not freeze.

Application Note

Immunoprecipitation: Tyrosine-phosphorylated form of LAT is not optimally recognized.

Flow cytometry: Intracellular staining. Tyrosine-phosphorylated form of LAT is not optimally recognized.

Western blotting: Recommended dilution: 1-2 µg/ml.

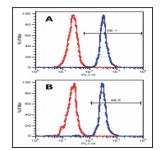


Figure 1: Flow Cytometry analysis of LAT expression in peripheral blood lymphocytes using anti-human LAT (LAT-01) (surface markers were stained prior to intracellular staining of human LAT). Panel A: gate on CD4+ cells , Panel B: gate on CD8+ cells