

**LAT Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9432b****Specification**

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**LAT Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [O43561](#)**LAT Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 27040**Other Names**

Linker for activation of T-cells family member 1, 36 kDa phospho-tyrosine adapter protein, pp36, p36-38, LAT

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**LAT Antibody (C-term) Blocking Peptide - Protein Information****Name** LAT**Function**

Required for TCR (T-cell antigen receptor)- and pre-TCR- mediated signaling, both in mature T-cells and during their development (PubMed:<a href="http://www.uniprot.org/citations/25907557" target="\_blank">25907557</a>, PubMed:<a href="http://www.uniprot.org/citations/23514740" target="\_blank">23514740</a>). Involved in FCGR3 (low affinity immunoglobulin gamma Fc region receptor III)-mediated signaling in natural killer cells and FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Couples activation of these receptors and their associated kinases with distal intracellular events such as mobilization of intracellular calcium stores, PKC activation, MAPK activation or cytoskeletal reorganization through the recruitment of PLCG1, GRB2, GRAP2, and other signaling molecules.

**Cellular Location**

Cell membrane; Single-pass type III membrane protein. Note=Present in lipid rafts

**Tissue Location**

Expressed in thymus, T-cells, NK cells, mast cells and, at lower levels, in spleen. Present in T-cells but not B-cells (at protein level).

## **LAT Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **LAT Antibody (C-term) Blocking Peptide - Images**

## **LAT Antibody (C-term) Blocking Peptide - Background**

LAT is phosphorylated by ZAP-70/Syk protein tyrosine kinases following activation of the T-cell antigen receptor (TCR) signal transduction pathway. This transmembrane protein localizes to lipid rafts and acts as a docking site for SH2 domain-containing proteins. Upon phosphorylation, this protein recruits multiple adaptor proteins and downstream signaling molecules into multimolecular signaling complexes located near the site of TCR engagement.

## **LAT Antibody (C-term) Blocking Peptide - References**

Cruz-Orcutt, N., et al. Mol. Immunol. 46 (11-12), 2274-2283 (2009) Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009) Shen, S., et al. J. Immunol. 182(9):5596-5604(2009) Krishnan, S., et al. J. Immunol. 181(11):8145-8152(2008) Jiang, Y., et al. Leuk. Res. 31(4):541-545(2007)