

Product datasheet

Anti-LAT antibody [11B.12] ab77755

1 Image

Overview

<b>Product name</b>	Anti-LAT antibody [11B.12]
<b>Description</b>	Mouse monoclonal [11B.12] to LAT
<b>Host species</b>	Mouse
<b>Specificity</b>	ab77755 recognizes both forms of LAT.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Proprietary Fusion protein, corresponding to amino acids 31-233 of Human LAT, cytoplasmic domain
<b>Positive control</b>	Jurkat cell lysate.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	Preservative: 0.05% Sodium Azide Constituents: 30% Glycerol, 0.15M Sodium chloride, 0.1M Tris glycine, pH 7.4
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	11B.12
<b>Isotype</b>	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab77755** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		

Application	Abreviews	Notes
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IP

**Application notes**

IP: Use at 5µl/0.5mg of lysate.  
 WB: 1/1000 - 1/5000. Predicted molecular weight: 28 kDa.

Not yet tested in other applications.  
 Optimal dilutions/concentrations should be determined by the end user.

**Target**

**Function**

Required for TCR (T-cell antigen receptor)- and pre-TCR-mediated signaling, both in mature T-cells and during their development. 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.

**Tissue specificity**

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).

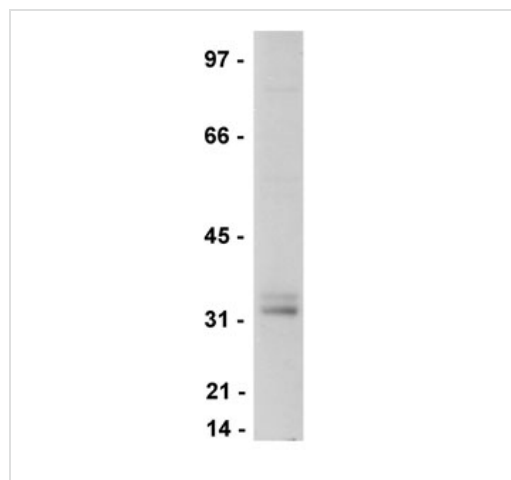
**Post-translational modifications**

Phosphorylated on tyrosines by ZAP-70 upon TCR activation, or by SYK upon other immunoreceptor activation; which leads to the recruitment of multiple signaling molecules. Is one of the most prominently tyrosine-phosphorylated proteins detected following TCR engagement. May be dephosphorylated by PTPRJ. Palmitoylation of Cys-26 and Cys-29 is required for raft targeting and efficient phosphorylation.

**Cellular localization**

Cell membrane. Present in lipid rafts.

**Images**



Anti-LAT antibody [11B.12] (ab77755) at 1/1000 dilution + Jurkat cell lysate at 20 µg

**Secondary**

Goat anti-mouse HRP conjugate

**Predicted band size:** 28 kDa

**Observed band size:** 36,38 kDa

Western blot - LAT antibody [11B.12] (ab77755)

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