

Product datasheet

Anti-LAT antibody [11B.12] ab77755

1 Image

Overview

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

Properties

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

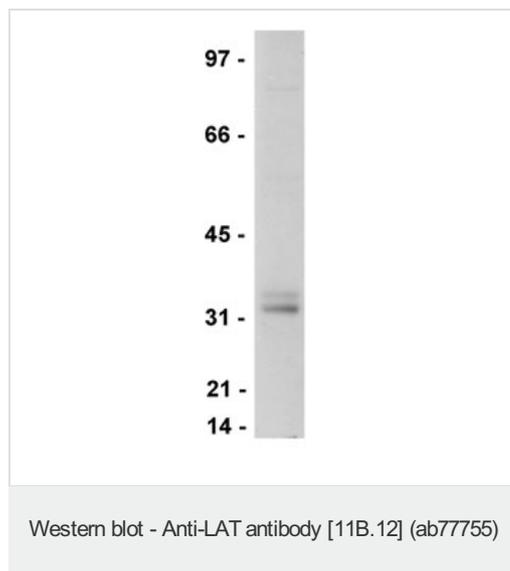
Post-translational modifications

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

[why is the actual band size different from the predicted?](#)

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