

Anti-LAT antibody ab2507

[4 References](#) [1 Image](#)

Overview

Product name	Anti-LAT antibody
Description	Rabbit polyclonal to LAT
Host species	Rabbit
Specificity	Binds to a 36-40 Kd protein in normal mouse lung and heart tissue. A larger size band of approx. 40-45 Kd is seen in human tumour cell lines.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide: CHRLPGSYDSTSSDSLYPRGI , corresponding to amino acids 29-48 of Human LAT.

 [Run BLAST with](#)

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General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: 0.1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab2507 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		1/1000.

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).

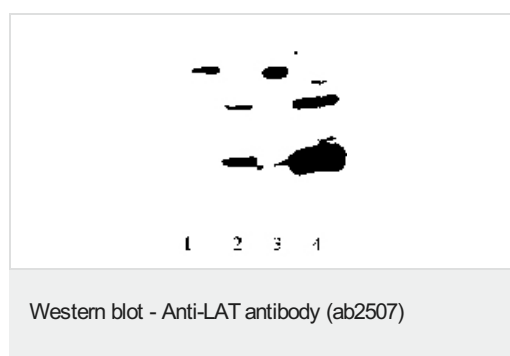
Post-translational modifications

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



Antibody recognizes approximately 36 KD size protein and its degradation products in mouse normal tissues. However, antibody specifically reacts with a approximately 46 KD protein in human tumor cell lines Jurkatt and K562. This immunoreactive 46 KD protein appears to be more stable than 36 KD immunoreactive protein observed in normal mouse tissue. (Lane 1, Human T cell line Jurkatt. Lane 2, Mouse Lung Lane 3, Human cell line K562 Lane 4, Mouse Heart).

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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