


Anti-LAT (phospho Y191) antibody ab59197

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Overview

Product name	Anti-LAT (phospho Y191) antibody
Description	Rabbit polyclonal to LAT (phospho Y191)
Host species	Rabbit
Specificity	Detects endogenous levels of LAT only when phosphorylated at tyrosine 191. This antibody detects LAT phosphorylated on Tyrosine 191 in isoform 2 (SwissProt: O43561-2), and Tyrosine 220 in isoform 1 (SwissProt: O43561).
Tested applications	Suitable for: WB, IHC-P, ELISA
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Synthetic peptide corresponding to Human LAT aa 150-250 (phospho Y191). Database link: O43561
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride</p> <p>Without Mg+2 and Ca+2</p>
Purity	Immunogen affinity purified
Purification notes	Affinity purified from rabbit antiserum by affinity chromatography using epitope specific phosphopeptide. The antibody against non phosphopeptide was removed by chromatography

using non phosphopeptide corresponding to the phosphorylation site.

Clonality

Polyclonal

Isotype

IgG

Applications**The Abpromise guarantee**

Our **Abpromise guarantee** covers the use of ab59197 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		1/500 - 1/1000. Detects a band of approximately 28 kDa (predicted molecular weight: 28 kDa).
IHC-P		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.

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

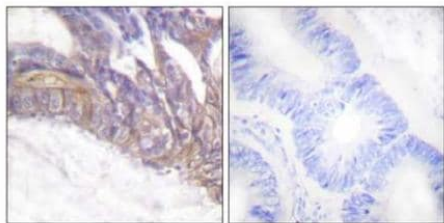
Phosphorylated on tyrosines by ZAP-70 upon TCR activation, or by SYK upon other immunoreceptor activation; which leads to the recruitment of multiple signaling molecules. Is one of the most prominently tyrosine-phosphorylated proteins detected following TCR engagement. May be dephosphorylated by PTPRJ.

Palmitoylation of Cys-26 and Cys-29 is required for raft targeting and efficient phosphorylation.

Cellular localization

Cell membrane. Present in lipid rafts.

Images



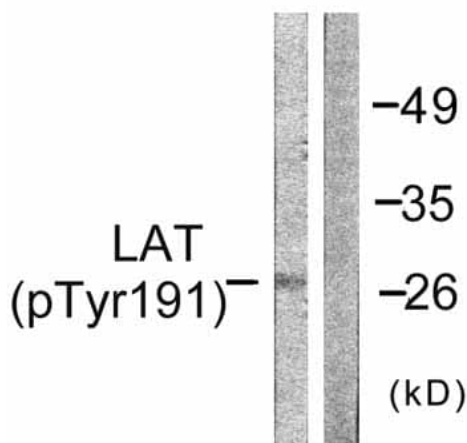
P-peptide

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LAT (phospho Y191) antibody (ab59197)

Immunohistochemical analysis of paraffin embedded human colon carcinoma tissue using ab59197 at 1/50 dilution. Left: untreated. Right: sample treated with immunising peptide.



Western blot - Anti-LAT (phospho Y191) antibody (ab59197)

All lanes : Anti-LAT (phospho Y191) antibody (ab59197) at 1/500 dilution

Lane 1 : NIH3T3 cells treated with PMA

Lane 2 : NIH3T3 cells treated with PMA with phosphopeptide

Predicted band size: 28 kDa

Observed band size: 28 kDa

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

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