

### Anti-LAT antibody [EPR26091-2] ab302960

**重组 RabMAb**

#### 11 图像

#### 概述

产品名称	Anti-LAT抗体[EPR26091-2]
描述	兔单克隆抗体[EPR26091-2] to LAT
宿主	Rabbit
经测试应用	<b>适用于:</b> WB, IHC-P, Flow Cyt (Intra), ICC/IF, IP
种属反应性	<b>与反应:</b> Mouse, Rat <b>不与反应:</b> Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Mouse and rat thymus tissue lysate. EL4 whole cell lysate. IHC-P: Mouse thymus and spleen tissue. Rat spleen tissue. ICC/IF: EL4 cells. Flow Cyt (Intra): EL4 cells. Mouse splenocytes. IP: Mouse thymus tissue lysate.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR26091-2

同种型

IgG

## 应用

### The Abpromise guarantee

**Abpromise™** 承诺保证使用ab302960于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 36 kDa.
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/50.
ICC/IF		1/100.
IP		1/30.

## 靶标

### 功能

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.

### 组织特异性

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).

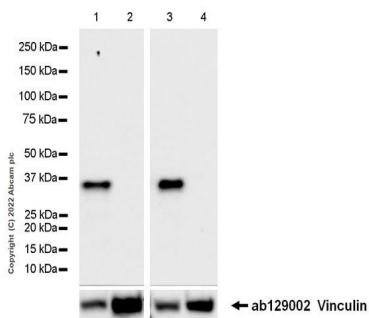
### 翻译后修饰

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.

### 细胞定位

Cell membrane. Present in lipid rafts.

## 图片



Western blot - Anti-LAT antibody [EPR26091-2] (ab302960)

**All lanes** : Anti-LAT antibody [EPR26091-2] (ab302960) at 1/1000 dilution

**Lane 1** : Mouse thymus tissue lysate

**Lane 2** : Mouse testis tissue lysate

**Lane 3** : EL4 (mouse lymphoma T lymphocyte), whole cell lysate

**Lane 4** : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

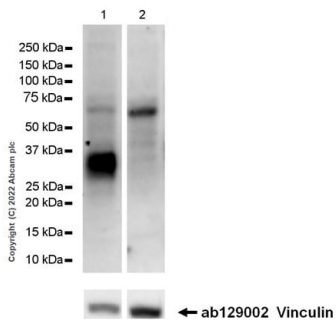
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Observed band size:** 36 kDa

**Exposure time:** 59 seconds

Blocking / Diluting buffer and concentration: 5% NFDm/TBST

Negative controls: testis (PMID: 9489702), RAW264.7 (PMID: 19948717)



Western blot - Anti-LAT antibody [EPR26091-2] (ab302960)

**All lanes** : Anti-LAT antibody [EPR26091-2] (ab302960) at 1/1000 dilution

**Lane 1** : Rat thymus tissue lysate

**Lane 2** : Rat testis tissue lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

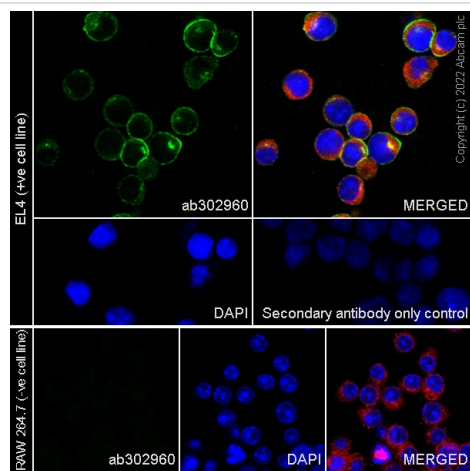
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Observed band size:** 36 kDa

**Exposure time:** 92 seconds

Blocking / Diluting buffer and concentration: 5% NFDN/TBST

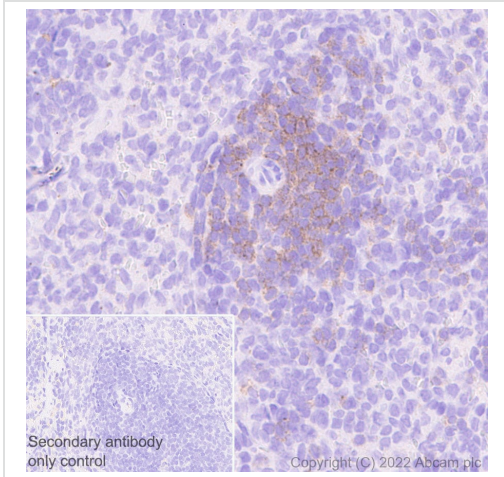
Negative control: testis(PMID:9489702)



Immunocytochemistry/ Immunofluorescence - Anti-LAT antibody [EPR26091-2] (ab302960)

Immunofluorescent analysis of 80% Methanol-fixed, 0.1% TritonX-100 permeabilized EL4 (mouse lymphoma T lymphocyte) cells labelling LAT with ab302960 at 1/100 (5.36 µg/ml) dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 µg/ml) dilution (Green). Confocal image showing membranous and cytoplasmic staining in EL4 cell line. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). **Negative control:** RWA 264.7 (PMID: 19948717) is observed. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5µg/ml) dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/ml) dilution.

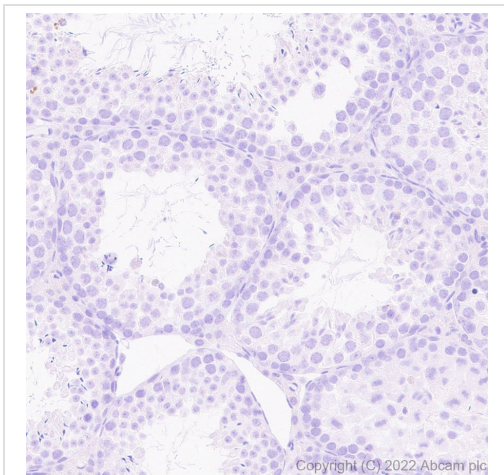


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LAT antibody [EPR26091-2] (ab302960)

Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labeling LAT with ab302960 at 1/500 (1.072 µg/ml) followed by a Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) at a ready to use dilution. Positive staining on rat spleen. The section was incubated with ab302960 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) at a ready to use dilution.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution 2) for 20 mins.

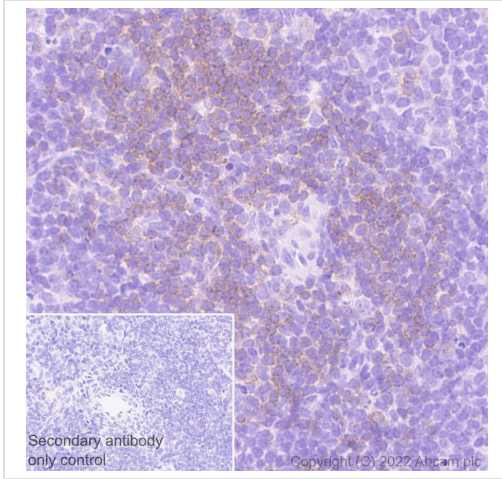


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LAT antibody [EPR26091-2] (ab302960)

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling LAT with ab302960 at 1/500 (1.072 µg/ml) followed by a Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) at a ready to use dilution. **Negative control:** No staining on mouse testis. The section was incubated with ab302960 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) at a ready to use dilution.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution 2) for 20 mins.

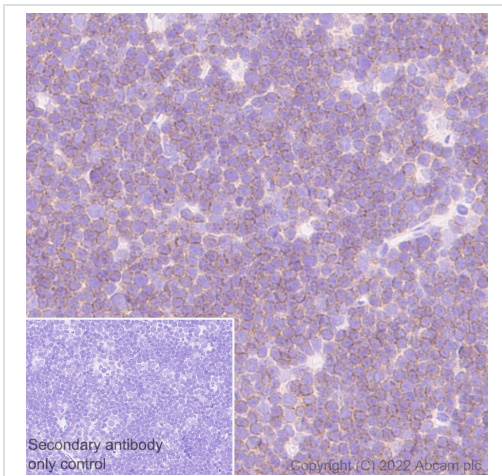


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LAT antibody [EPR26091-2] (ab302960)

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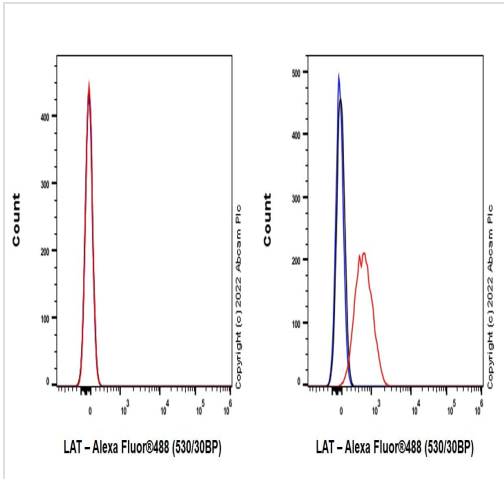


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LAT antibody [EPR26091-2] (ab302960)

Immunohistochemical analysis of paraffin-embedded Mouse thymus tissue labeling LAT with ab302960 at 1/500 (1.072 µg/ml) followed by a Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) at a ready to use dilution. Positive staining on mouse thymus. The section was incubated with ab302960 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument counterstained with Hematoxylin.

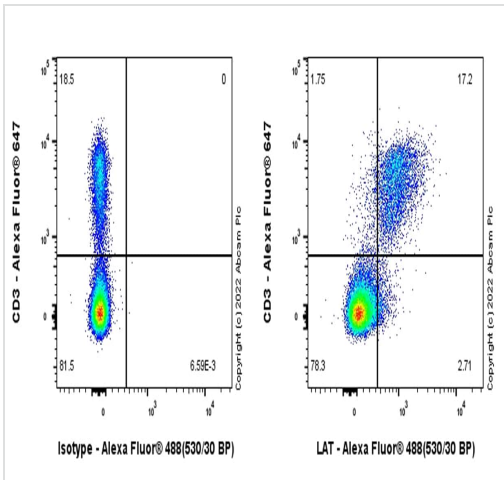
Secondary antibody only control: Secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) at a ready to use dilution.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution 2) for 20 mins.



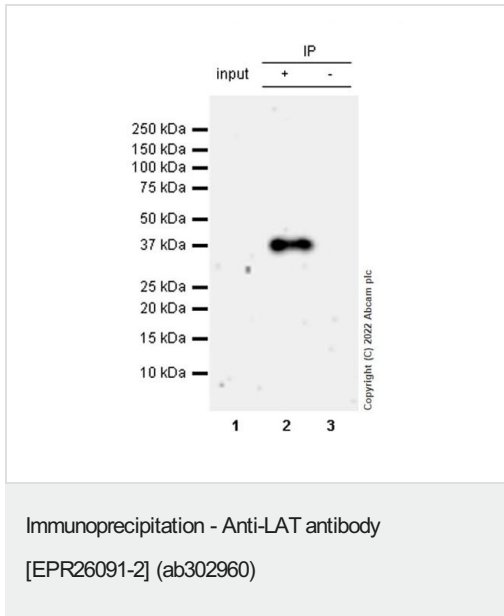
Flow Cytometry (Intracellular) - Anti-LAT antibody  
[EPR26091-2] (ab302960)

Flow cytometric (Intracellular) analysis of 4% paraformaldehyde fixed 90% methanol permeabilized RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage, Left) / EL4 (mouse lymphoma T lymphocyte, Right) cells labelling LAT with ab302960 at 1/500 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody. Negative control: RAW264.7 (PMID: 19948717).



Flow Cytometry (Intracellular) - Anti-LAT antibody  
[EPR26091-2] (ab302960)

Flow cytometric analysis of 2% paraformaldehyde fixed 0.1% Tween-20 permeabilized Mouse splenocytes cells labelling LAT with ab302960 at 1/50 dilution. A Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody. Cells were surface stained with anti-CD3 conjugated to Alexa Fluor® 647 then fixed with 2% PFA for 10min followed by intracellularly stained with **ab172730** (isotype control) or ab302960.



LAT was immunoprecipitated from 0.35 mg Mouse thymus tissue lysate 10 µg with ab302960 at 1/30 dilution (2µg in 0.35mg lysates). Primary ab302960 used for western blot at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) ([ab131366](#)) was used at 1/5000 dilution.

**Lane 1:** Mouse thymus tissue lysate 10 µg

**Lane 2:** ab302960 IP in Mouse thymus tissue lysate

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab302960 in Mouse thymus tissue lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 180 seconds

Why choose a recombinant antibody?

- Research with confidence**  
Consistent and reproducible results
- Long-term and scalable supply**  
Recombinant technology
- Success from the first experiment**  
Confirmed specificity
- Ethical standards compliant**  
Animal-free production

Anti-LAT antibody [EPR26091-2] (ab302960)

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

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