

## LAT (Phospho Tyr191) Rabbit pAb

CatalogNo: YP0659

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 28kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:5000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human LAT around the phosphorylation site of Tyr191. AA range:191-240

## Specificity

Phospho-LAT (Y191) Polyclonal Antibody detects endogenous levels of LAT protein only when phosphorylated at Y191. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):REyVN

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## Target Information

**Gene name** LAT

**Protein Name** Linker for activation of T-cells family member 1

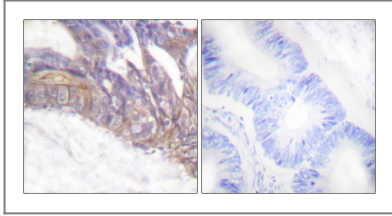
Organism	Gene ID	UniProt ID
Human	<a href="#">27040</a> ;	<a href="#">O43561</a> ;
Mouse	<a href="#">16797</a> ;	<a href="#">O54957</a> ;
Rat	<a href="#">81511</a> ;	<a href="#">O70601</a> ;

**Cellular Localization** Cell membrane ; Single-pass type III membrane protein . Present in lipid rafts.

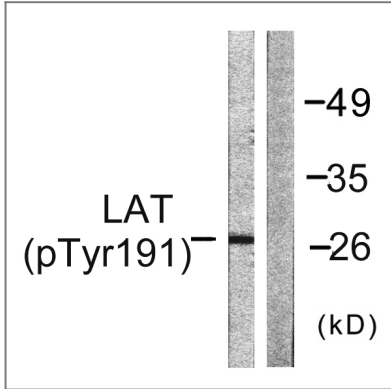
**Tissue specificity** Expressed in thymus , T-cells , NK cells , mast cells and , at lower levels , in spleen. Present in T-cells but not B-cells (at protein level) .

**Function** 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. ,miscellaneous:Engagement of killer inhibitory receptors (KIR) disrupts the interaction of PLCG1 with LAT and blocks target cell-induced activation of PLC , maybe by inducing the dephosphorylation of LAT. ,PTM:Palmitoylation of Cys-26 and Cys-29 is required for raft targeting and efficient phosphorylation. ,PTM: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. ,subcellular location:Present in lipid rafts. ,subunit:When phosphorylated , interacts directly with the PIK3R1 subunit of phosphoinositide 3-kinase and the SH2 domains of GRB2 , GRAP , GRAP2 , PLCG1 and PLCG2. Interacts indirectly with CBL , SOS , VAV , and LCP2. Interacts with SHB , SKAP2 and CLNK (By similarity) . Interacts with FCGR1A. ,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) . ,

## Validation Data



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using LAT (Phospho-Tyr191) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from NIH/3T3 cells, using LAT (Phospho-Tyr191) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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Please scan the QR code to access additional product information:  
**LAT (Phospho-Tyr191) Rabbit pAb**

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