

## LAT (Phospho Tyr171) Rabbit pAb

CatalogNo: YP1381

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC

#### MW

- 34kD (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 1:500-2000

IHC 1:50-300

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho peptide around human LAT (Tyr171)

**Specificity** This antibody detects endogenous levels of Human LAT (phospho-Tyr171)

### Target Information

**Gene name** LAT

**Protein Name**

LAT (Tyr171)

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.

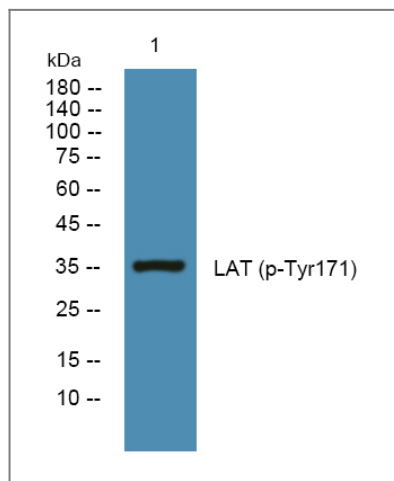
**Tissue specificity**

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) .

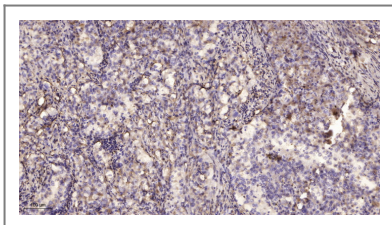
**Function**

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



Western blot analysis of lysates from K562 cells, primary antibody was diluted at 1:1000, 4°C over night



Immunohistochemical analysis of paraffin-embedded human lung cancer. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH 9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

## | Contact information

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**LAT (Phospho Tyr171) Rabbit pAb**

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