

## Anti-Phospho-LAT (Tyr 220) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

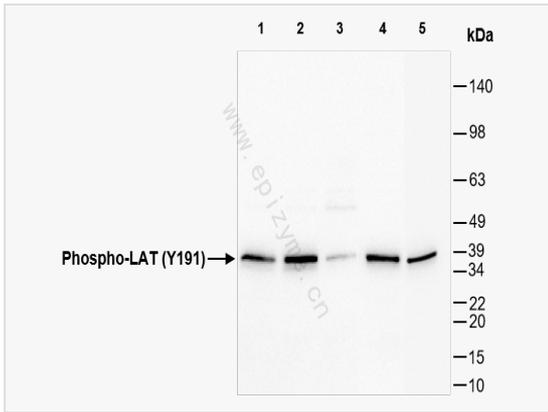
Catalog # R014552

### Product Information

|             |  |
|-------------|--|
| Application | WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA  |
| Reactivity  | Human, Mouse, Rat  |
| Dilution    | WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200  |
| Host        | Rabbit   |
| Clonality   | Monoclonal   |
| Clone No.   | 12J17C68   |
| Isotype     | IgG  |
| Label       | Unconjugated   |
| Immunogen   | A synthesized peptide derived from human Phospho-LAT (Y220)  |
| Format      | Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.                            |
| Storage     | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.        |
| Precautions | Anti-Phospho-LAT (Tyr 220) Rabbit mAb [12J17C68] is for research use only and not for use in diagnostic or therapeutic procedures. |

### Protein Information

|                   |   |
|-------------------|---|
| Synonyms          | 36 kDa phospho tyrosine adapter protein, 36 kDa phospho-tyrosine adapter protein, 36 kDa phospho-tyrosine adaptor protein, LAT 1, lat, LAT_HUMAN, LAT1, Linker for activation of T cells, Linker for activation of T cells family member 1, linker for activation of T cells, transmembrane adaptor, Linker for activation of T-cells family member 1, p36 38, p36-38, pp36.  |
| Calculated MW     | Calculated MW: 28 kDa; Observed MW: 38 kDa  |
| Uniprot ID        | O43561  |
| Gene ID           | 27040   |
| Background        | 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. |
| Cellular Location | Cell membrane. Present in lipid rafts.  |
| Tissue Location   | 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).  |



Western Blot - Anti-Phospho-LAT (Tyr220) Rabbit mAb [12J17C68]

All lanes: R014552 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 5: Rat kidney whole tissue lysates

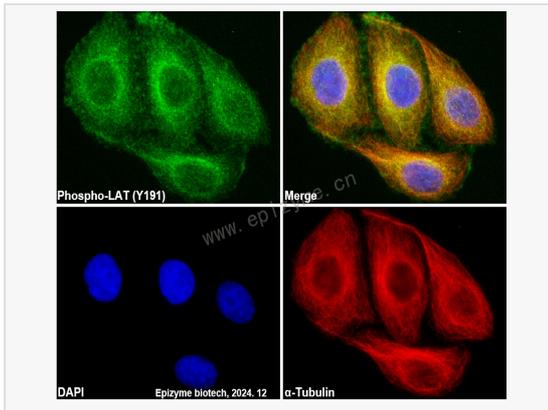
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 28 kDa

Observed band size: 38 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Phospho-LAT (Tyr220) Rabbit mAb [12J17C68]

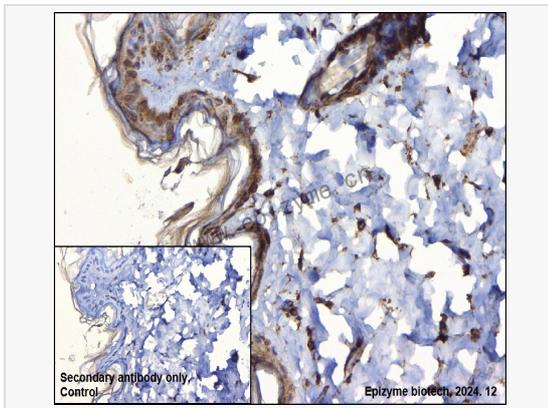
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014552 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-Phospho-LAT (Tyr220) Rabbit mAb [12J17C68]

Sample: Paraformaldehyde-fixed, paraffin embedded rat skin tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

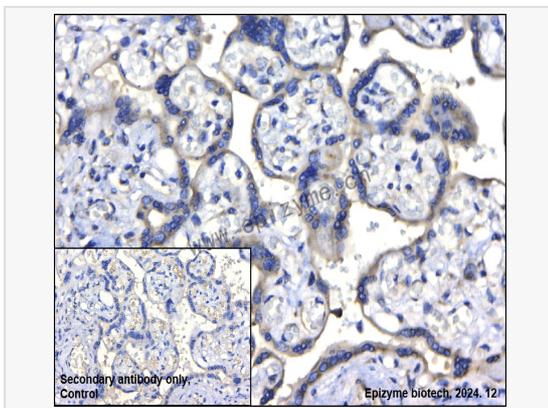
Primary antibody: R014552 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-LAT (Tyr220) Rabbit mAb [12J17C68]

Sample: Paraformaldehyde-fixed, paraffin embedded human placenta tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

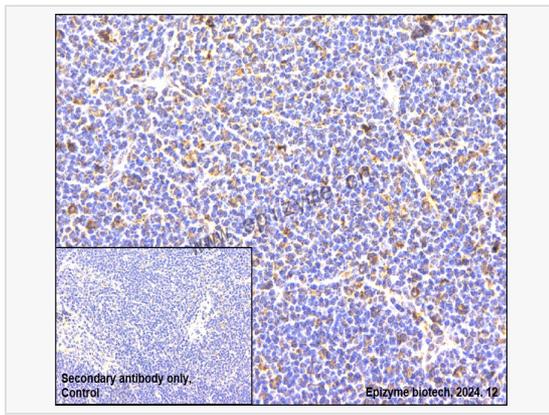
Primary antibody: R014552 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-LAT (Tyr220) Rabbit mAb [12J17C68]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse spleen tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014552 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.