

Anti-Phospho-LAT (Tyr191) Antibody (7X750)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7X750
Purification:	Affinity-chromatography

Applications

1. Western Blot
- Positive WB detected in: Jurkat whole cell lysate, HeLa whole cell lysate, HepG2 whole cell lysate (treated with EGF or Pervanadate)
 - All lanes: Phospho-LAT antibody at 2.9 µg/ml
 - Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution
 - Predicted band size: 38 KDa
 - Observed band size: 38 KDa
2. IHC image of TMAH-00915 diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.
3. IHC image of TMAH-00915 diluted at 1:100 and staining in paraffin-embedded human colon cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.
4. Immunofluorescence staining of HeLa cells with TMAH-00915 at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).
5. Immunoprecipitating Phospho-LAT in A549 whole cell lysate
- Lane 1: Rabbit control IgG (1 µg) instead of TMAH-00915 in A549 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
 - Lane 2: TMAH-00915 (3 µg) + A549 whole cell lysate (1 mg)
 - Lane 3: A549 whole cell lysate (20 µg)
- Verified Activity:

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Application: ELISA, WB, IHC, IF, IP

Recommended WB:1:500-1:5000; IHC:1:50-1:200; IF:1:20-1:200; IP:1:200-1:1000.

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthetic peptide: Human Phospho-LAT (Y191)

Antigen Species: Human

Gene ID: 27040

Uniprot ID: O43561

Synonyms: p36-38;Linker for activation of T-cells family member 1;p-LAT (Y191);LAT (p-Tyr191);pp36;LAT (p-Y191);Phospho-LAT (Y191);p-LAT (Tyr191);36 kDa phospho-tyrosine adapter protein

Biology Area: Immunology

Research 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.

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