Product Name: LAT Rabbit Polyclonal Antibody

Catalog #: APRab13224



Summary

Production Name LAT Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit
Application WB,ELISA

Reactivity Human, Mouse, Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Storage

Gene Name LAT

LAT; Linker for activation of T-cells family member 1; 36 kDa phospho-tyrosine adapter Alternative Names

protein; pp36; p36-38

Gene ID 27040.0

O43561.The antiserum was produced against synthesized peptide derived from human **SwissProt ID**

LAT. AA range:171-220

Application

Dilution Ratio WB 1:500-2000 ELISA 2000-20000

Molecular Weight 38kD

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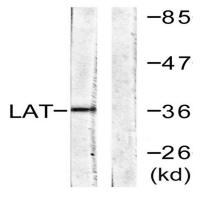
Background

The protein encoded by this gene is phosphorylated by ZAP-70/Syk protein tyrosine kinases following activation of the Tcell antigen receptor (TCR) signal transduction pathway. This transmembrane protein localizes to lipid rafts and acts as a docking site for SH2 domain-containing proteins. Upon phosphorylation, this protein recruits multiple adaptor proteins and downstream signaling molecules into multimolecular signaling complexes located near the site of TCR engagement. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008], 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 tyrosinephosphorylated 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).,

Research Area

Natural killer cell mediated cytotoxicity; T_Cell_Receptor; Fc epsilon RI; Fc gamma R-mediated phagocytosis;

Image Data

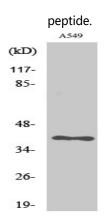


Western blot analysis of lysates from A549 cells, using LAT Antibody. The lane on the right is blocked with the synthesized

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Western Blot analysis of various cells using LAT Polyclonal Antibody

Note

For research use only.