BT LAB
Bioassay Technology Laboratory
Optimize Your Research

LAT(Phospho Tyr255) Rabbit Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP11001
Host	Rabbit
Isotype	IgG
Size	100ul, 50ul, 20ul
Immunogen	Synthesized peptide derived from human LAT (Phospho Tyr255)
Mol wt	28820
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	LAT
Synonyms	LAT ;Phospho Tyr255; Linker for activation of T-cells family member 1; 36 kDa phospho-tyrosine adapter protein; pp36; p36-38

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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.|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).|

Recommended Dilution

WB: 1: 1000 - 1: 2000

ELISA: 1: 5000 - 1: 20000

Not yet tested in other applications.

Images

No images.

Storage

-20°C for 1 year

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