



# LAT (Phospho Tyr255) mouse mAb

<b>Catalog No</b>	BYmab-13865
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	LAT
<b>Protein Name</b>	LAT (Phospho Tyr255)
<b>Immunogen</b>	Synthesized peptide derived from human LAT (Phospho Tyr255)
<b>Specificity</b>	This antibody detects endogenous levels of Human,Mouse,Rat LAT (Phospho Tyr255)
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	Linker for activation of T-cells family member 1 (36 kDa phospho-tyrosine adapter protein;pp36;p36-38)
<b>Observed Band</b>	38kD
<b>Cell Pathway</b>	Cell membrane ; Single-pass type III membrane protein . Present in lipid rafts.
<b>Tissue Specificity</b>	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).
<b>Function</b>	cell activation, immune effector process, cell activation during immune response, myeloid leukocyte activation, myeloid cell activation during immune response, leukocyte activation during immune response, leukocyte mediated immunity,myeloid leukocyte mediated immunity, mast cell mediated immunity, regulation of leukocyte activation, exocytosis,immune response, cell surface receptor linked signal transduction, integrin-mediated signaling pathway, intracellular signaling cascade, small GTPase mediated signal transduction, Ras protein signal transduction, vesicle-mediated transport, calcium-mediated signaling, second-messenger-mediated signaling, secretion by cell, leukocyte degranulation, mast cell degranulation, regulated secretory pathway, leukocyte activation, mast cell

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activation,secretion, regulation of T cell activation, regulation of cell activation, regulation of lymphocyte activation

## Background

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).,

## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images

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