

Rabbit anti-Human, Mouse LAT Polyclonal Antibody | anti-LAT antibody

Phospho-LAT (Tyr200) Antibody

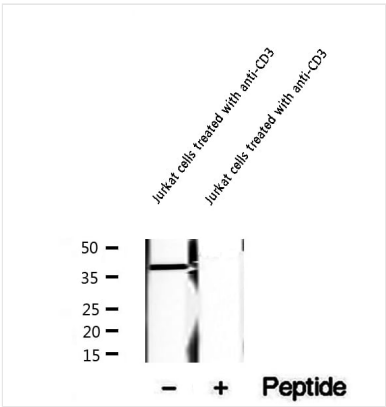
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321343	Rabbit	Human, Mouse	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

LAT; Polyclonal Antibody; Phospho-LAT (Tyr200) Antibody; 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; anti-LAT antibody

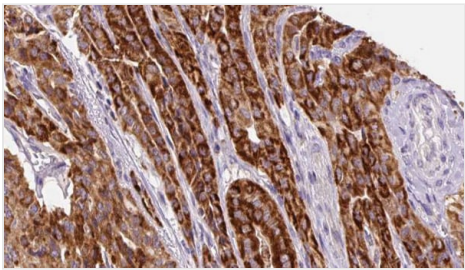
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-LAT (Tyr200) antibody detects endogenous levels of LAT.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	233
Applicable Applications for anti-LAT antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human LAT around the phosphorylation site of Tyr200.
Subcellular Location	Cell Membrane. Present in lipid rafts.
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).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (83%), Bovine (83%), Horse (83%), Sheep (83%), Rabbit (92%), Dog (83%)
Conjugation	Unconjugated
Epitope	Phospho Tyr200
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of extracts of Jurkat cells treated with anti-CD3, using Phospho-LAT (Tyr200) Antibody.



IHC (Immunohistochemistry)

AAA321343 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-LAT antibody	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. Subunit Structure: 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. Interacts with GRB2, PLCG1 and THEMIS upon TCR activation in thymocytes (By similarity). Post-translational Modifications: Phosphorylated on tyrosines by ZAP70 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. May be dephosphorylated by PTPRJ. Phosphorylated by ITK leading to the recruitment of VAV1 to LAT-containing complexes. Palmitoylation of Cys-26 and Cys-29 is required for raft targeting and efficient phosphorylation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	62739155
NCBI GeneID	27040
NCBI Accession #	NP_001014987.1
NCBI GenBank Nucleotide #	NM_001014987.1
UniProt Accession #	O43561; O43919; B7WPI0; C7C5T6; G5E9K3
Molecular Weight	Observed: 36; 38 kDa Predicted: 28 kDa
NCBI Official Full Name	linker for activation of T-cells family member 1 isoform b
NCBI Official Synonym Full Names	linker for activation of T cells
NCBI Official Symbol	LAT
NCBI Official Synonym Symbols	LAT1; pp36; IMD52
NCBI Protein Information	linker for activation of T-cells family member 1
UniProt Protein Name	Linker for activation of T-cells family member 1

UniProt Gene Name	LAT
UniProt Synonym Gene Names	pp36

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/lat-antibody-immunohistochemistry-western-blot-elisa/321343>