

Recombinant Human LAT, His-tagged

Cat. No. LAT-29047TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human LAT isoform 2 protein with an N terminal His tag; 227 amino acids with the tag; predicted MWt: 24.4 kDa.
Species	Human
Source	E.coli
ProteinLength	206 amino acids
Description	The protein encoded by this gene is phosphorylated by ZAP-70/Syk protein tyrosine kinases following activation of the T-cell 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.
Conjugation	HIS
Molecular Weight	24.400kDa inclusive of tags
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).
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 0.02% DTT
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMHCHRLPGSYDSTSSDSLYPRGIQFKRPHTVAPWP PAYPPVTSYPPLSQPDLLPIRSPQPLGGSHRTPSSRRDSDGANSVASIYENEEPAC EDADEDEDDYHNPGYLVLPDSTPATSTAAPSAPALSTPGIRDSAFSMESIDDYVNV PESGESAEASLDGSREYVNVSQELHPGAAKTEPAALSSQEAEVEEEEGAPDYENLQ ELN

GENE INFORMATION

Gene Name	LAT linker for activation of T cells [Homo sapiens]
Official Symbol	LAT
Synonyms	LAT; linker for activation of T cells; linker for activation of T-cells family member 1; LAT1; transmembrane adaptor;
Gene ID	27040
mRNA Refseq	NM_001014987
Protein Refseq	NP_001014987
MIM	602354
Uniprot ID	O43561

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Chromosome Location	16q13
Pathway	Adaptive Immune System, organism-specific biosystem; Fc epsilon RI signaling pathway, organism-specific biosystem; Fc epsilon RI signaling pathway, conserved biosystem; Fc gamma R-mediated phagocytosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem;
Function	SH3/SH2 adaptor activity; protein binding; protein kinase binding;

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