LAT Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	LAT, Blocking Peptide
Full Product Name	LAT Blocking Peptide
Product Gene Name	LAT blocking peptide
Product Synonym Names	Linker for activation of T-cells family member 1; 36 kDa phospho-tyrosine adapter protein; pp36; p36-38
Host	Synthetic
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	LAT peptide (MBS8247890) is used for blocking the activity of LAT antibody (MBS8248178)
Molecular Weight	27,774 Da
OMIM	602354
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for LAT blocking peptide	Blocking (BL)
Application Notes for LAT blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for LAT blocking peptide	MBS8247890 is a blocking peptide targeting LAT. Reactive in Human, Mouse, Rat. Host: Synthetic. The peptide is used to block Anti-LAT Antibody reactivity.
Other Notes	Small volumes of LAT blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LAT. It may not necessarily be applicable to this product.

NCBI GI #	62739155
NCBI GeneID	27040
NCBI Accession #	NP_001014987.1
UniProt Primary Accession #	O43561
UniProt Secondary Accession #	O43919; B7WPI0; C7C5T6; G5E9K3
UniProt Related Accession #	O43561
GenBank Nucleotide #	NM_001014987.1
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
UniProt Protein Name	Linker for activation of T-cells family member 1
UniProt Synonym Protein Names	36 kDa phospho-tyrosine adapter protein; pp36; p36-38
Protein Family	L-lysine-epsilon aminotransferase
UniProt Gene Name	LAT
UniProt Synonym Gene Names	pp36
UniProt Entry Name	LAT_HUMAN
NCBI Protein Information	linker for activation of T-cells family member 1
NCBI Summary for LAT	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. [provided by RefSeq, Jul 2008]
UniProt Comments for LAT	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.
Research Articles on LAT	**1.** High expression of LAT1 and ASCT2 correlates with metastasis and invasion in esophageal squamous cell carcinoma.
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