Product Name: KD-Validated Linker For Activation Of T Cells Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00734
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 27.9kDa

Antigen Information

Gene Name	LAT
Alternative Names	LAT; Linker For Activation Of T Cells; LAT1; Linker For Activation Of T Cells,Transmembrane Adaptor; Linker For Activation Of T-Cells Family Member 1; 36 KDa Phosphotyrosine Adapter Protein; P36-38; Pp36; 36 KDa Phospho-Tyrosine Adapter Protein; 36 KDa Phospho-Tyrosine Adaptor Protein; IMD52
Gene ID	27040.0
SwissProt ID	O43561
Immunogen	A synthesized peptide derived from human LAT

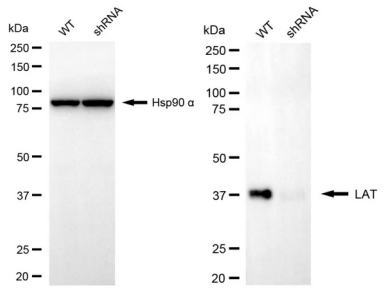
Background

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]

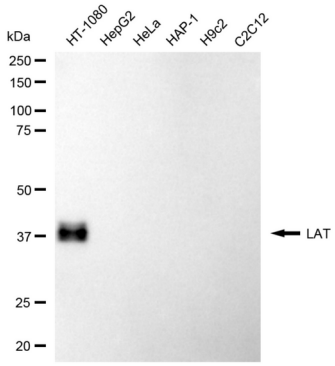
Research Area

Immunology,Signal Transduction

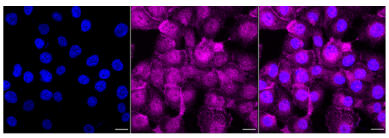
Image Data



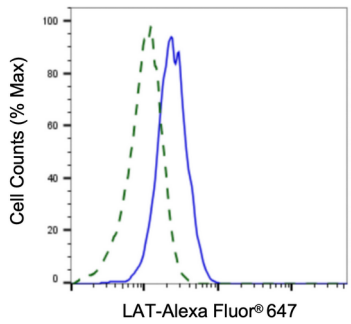
Western blotting analysis using LAT antibody (KVAb00734). LAT expression in wild type (WT) and LAT shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with LAT antibody (KVAb00734, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



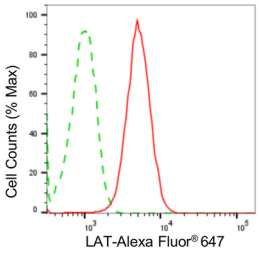
Western blotting analysis using LAT antibody (KVAb00734). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with LAT antibody (KVAb00734, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. LAT, linker for activation of T cells.



Immunocytochemical staining of HT-1080 cells with LAT antibody(KVAb00734, 1:1,000) . Nuclei were stained blue with DAPI; LAT was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of LAT knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with LAT antibody (KVAb00734, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of LAT expression in HT-1080 cells using LAT antibody (KVAb00734, 1:2,000). Green, isotype control; red, LAT.