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LAT Antibody (aa70-120)
Rabbit Polyclonal Antibody
Catalog # ALS15292

Specification

LAT Antibody (aa70-120) - Product Information

Application	**WB, IHC**
Primary Accession	O43561
Reactivity	**Human, Mouse, Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**28kDa KDa**

LAT Antibody (aa70-120) - Additional Information

Gene ID 27040

Other Names
Linker for activation of T-cells family member 1, 36 kDa phospho-tyrosine adapter protein, pp36, p36-38, LAT

Target/Specificity
Human LAT

Reconstitution & Storage
Store at 4°C for short term applications. For long term storage, aliquot and store at -20°C.

Precautions
LAT Antibody (aa70-120) is for research use only and not for use in diagnostic or therapeutic procedures.

LAT Antibody (aa70-120) - Protein Information

Name LAT

Function
Required for TCR (T-cell antigen receptor)- and pre-TCR- mediated signaling, both in mature T-cells and during their development (PubMed:25907557, PubMed:23514740). 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.

Cellular Location
Cell membrane; Single-pass type III membrane protein. Note=Present in lipid rafts

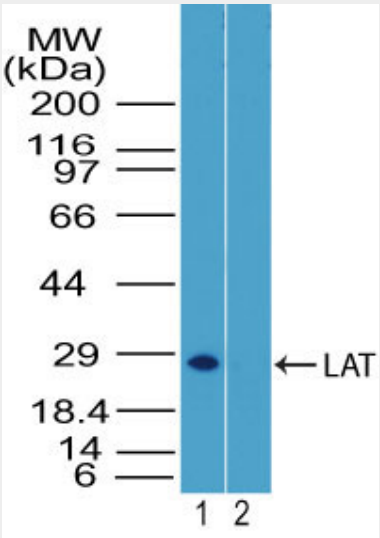
Tissue Location
Expressed in thymus, T-cells, NK cells, mast cells and, at lower levels, in spleen. Present in T-cells but not B-cells (at protein level).

LAT Antibody (aa70-120) - Protocols

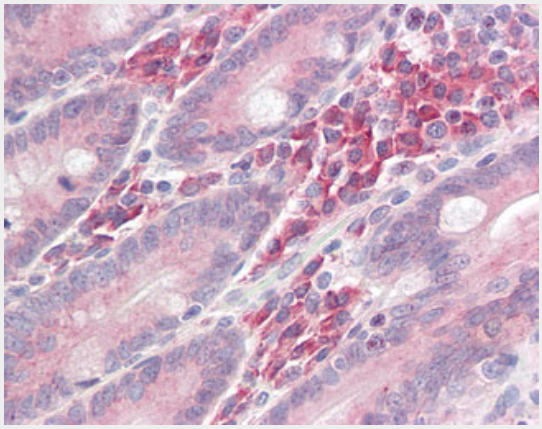
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LAT Antibody (aa70-120) - Images



Western blot of LAT in mouse thymus tissue lysate in the 1) absence and 2) presence of...



Anti-LAT1 / LAT antibody IHC of human small intestine.

LAT Antibody (aa70-120) - Background

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.

LAT Antibody (aa70-120) - References

Zhang W.,et al.Cell 92:83-92(1998).
Weber J.R.,et al.J. Exp. Med. 187:1157-1161(1998).
Muschen M.,et al.Submitted (JUL-2009) to the EMBL/GenBank/DDBJ databases.
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Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.