10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-LAT (Phospho-Y191) Antibody

Catalog # AP51627

Product Information

Application	WB, IHC
Primary Accession	O43561
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27930

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
Target/Specificity	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding Y191 of human LAT protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

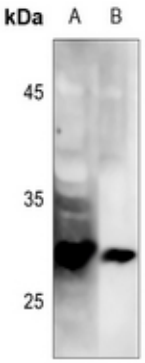
Protein Information

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:23514740, PubMed:25907557). 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).

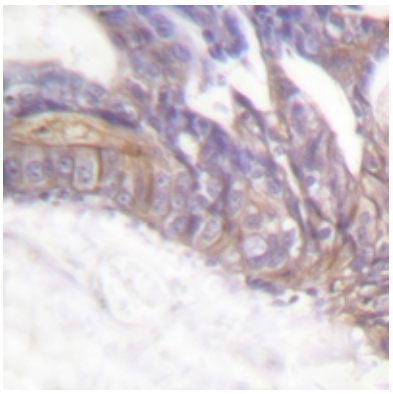
References

Zhang W.,et al.Cell 92:83-92(1998).
Weber J.R.,et al.J. Exp. Med. 187:1157-1161(1998).
Martin J.,et al.Nature 432:988-994(2004).
Zhang W.,et al.Immunity 9:239-246(1998).
Lindholm C.K.,et al.J. Biol. Chem. 274:28050-28057(1999).

Images



Western blot analysis of LAT (Phospho-Y191) expression in mouse muscle (A), rat muscle (B) whole cell lysates. (Predicted band size: 27 kD; Observed band size: 28 kD)



Immunohistochemical analysis of LAT (Phospho-Y191) staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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