

Product datasheet for TA392925M

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LAT Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Reactivity: WB: 1:500~1:1000 Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Synthetic phosphopeptide derived from human LAT (Isoform Short) around the

phosphorylation site of Tyrosine 191.

Specificity: p-LAT (Y191) polyclonal antibody detects endogenous levels of human LAT (Isoform Short)

only when phosphorylated at Tyr191, and detects LAT (Isoform Long) only when

phosphorylated at Tyr220.

Formulation: Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Concentration: 1mg/ml

Conjugation: Unconjugated

Storage: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

Stability: 1 year

Predicted Protein Size: ~ 38 kDa

Gene Name: linker for activation of T-cells

Database Link: Entrez Gene 27040 Human

<u>043561</u>



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Background:

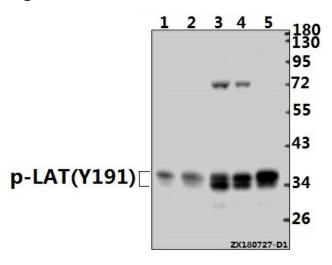
LAT, a transmembrane adaptor protein expressed in T, NK and mast cells, is an important mediator for T cell receptor (TCR) signaling. Upon TCR engagement, activated Zap-70 phosphorylates LAT at multiple conserved tyrosine residues within SH2 binding motifs, exposing these motifs as the docking sites for downstream signaling targets. The phosphorylation of LAT at Tyr171 and 191 enables the binding of Grb2, Gads/SLP-76, PLCgamma1 and PI3 kinase through their SH2 domain and translocates them to the membrane. This process eventually leads to activation of the corresponding signaling pathways.

Synonyms: 36 kDa phospho-tyrosine adapter protein; LAT; Linker for activation of T-cells family member

1; p36-38; pp36

Note: For research use only, not for use in diagnostic procedure.

Product images:



Western blot (WB) analysis of p-LAT (Y191) pAb at 1:1000 dilution Lane1:H9C2 whole cell lysate(40ug) Lane2:RAW264.7 whole cell lysate(40ug) Lane3:K562 whole cell lysate(20ug) Lane4:Myla2059 whole cell lysate(20ug) Lane5:HuT78 whole cell lysate(20ug)