Human Linker for activation of T cell (LAT) ELISA Kit

Catalog No: #EK10149

Package Size: #EK10149-1 48T #EK10149-2 96T

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Description

Product Name	Human Linker for activation of T cell (LAT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	LAT1; pp36; 36 kDa phospho-tyrosine adaptor protein|linker for activation of T-cells family member 1
Accession No.	O43561
Uniprot	O43561
GeneID	27040;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.102 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate LAT in samples. An antibody specific for LAT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLAT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LAT is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LAT bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Linker of Activated T cells also known as LAT is a protein which is encoded by the LAT gene. Alternative splicing results in multiple transcript variants encoding different isoforms.

The protein encoded by this gene is phosphorylated by ZAP70/SYK protein tyrosine kinases following activation of the T-cell antigen receptor (TCR) signal transduction pathway. This transmembrane protein localizes to lipid rafts (also known as glycosphingolipid-enriched microdomains or GEMs) 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.

Note: This product is for in vitro research use only