For Research Use Only

Phospho-LCK (Tyr505) Recombinant antibody

Catalog Number:85679-1-RR

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Basic Information

Catalog Number:
85679-1-RR

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC013200

GeneID (NCBI):
3932

UNIPROT ID:
P06239

Full Name:
lymphocyte-specific protein tyrosine kinase

Calculated MW:
539 aa, 56 kDa

Observed MW:
56 kDa

Purification Method:
Protein A purification

CloneNo.:
242450G6

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human

Positive Controls:

WB : H2O2 treated Jurkat cells,

Background Information

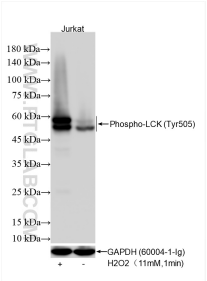
Lck is comprised of a SH3 domain, binding prolinerich regions, a SH2 domain, binding tyrosine-phosphorylated sequences, a kinase domain, a unique domain, and the negative regulatory tail. The kinase domain of Lck contains 2 important tyrosine residues. Tyr394 and Tyr505 represent the activating and inhibitory tyrosine residue, respectively. Therefore, Lck can exist in 4 distinct states of activity: an inactive state, a primed state, an active state, and a dually phosphorylated active state . Transitions between activity states are governed by phosphorylation at the Tyr394 and Tyr505 residues. When Tyr394 is dephosphorylated while Tyr505 is phosphorylated, Lck is in an inactive state. Lck becomes primed when Tyr505 is dephosphorylated and fully active after Tyr394 phosphorylation. In addition, there is a dually phosphorylated active form of Lck when both Tyr394 and Tyr505 residues are phosphorylated. (PMID: 32794043)

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Non-treated Jurkat cells and H2O2 treated Jurkat cells were subjected to SDS PAGE followed by western blot with 85679-1-RR (Phospho-LCK (Tyr505) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as a loading control.