

Datasheet for ABIN3020028
anti-LCK antibody (pTyr505)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µL
Target:	LCK
Binding Specificity:	pTyr505
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LCK antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Immunogen:	A synthetic phosphorylated peptide around Y505 of human Lck (NP_001036236.1).
Sequence:	GQYQP
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Phosphorylated Antibodies

Target Details

Target:	LCK
Alternative Name:	LCK (LCK Products)
Background:	This gene is a member of the Src family of protein tyrosine kinases (PTKs). The encoded

Target Details

protein is a key signaling molecule in the selection and maturation of developing T-cells. It contains N-terminal sites for myristylation and palmytilation, a PTK domain, and SH2 and SH3 domains which are involved in mediating protein-protein interactions with phosphotyrosine-containing and proline-rich motifs, respectively. The protein localizes to the plasma membrane and pericentrosomal vesicles, and binds to cell surface receptors, including CD4 and CD8, and other signaling molecules. Multiple alternatively spliced variants encoding different isoforms have been described.,LCK,IMD22,LSK,YT16,p56lck,pp58lck,Signal Transduction,G protein signaling,G2/M DNA Damage Checkpoint,Kinase,Tyrosine kinases,Cell Biology & Developmental Biology,Apoptosis,Cell Cycle,Centrosome,Immunology & Inflammation,T Cell Receptor Signaling Pathway,Protein phosphorylation,LCK

Molecular Weight: 40 kDa/58 kDa/61 kDa

Gene ID: 3932

UniProt: [P06239](#)

Pathways: [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Transition Metal Ion Homeostasis](#), [Positive Regulation of Endopeptidase Activity](#), [CXCR4-mediated Signaling Events](#), [Thromboxane A2 Receptor Signaling](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IP,1:50 - 1:100

Restrictions: For Research Use only

Handling

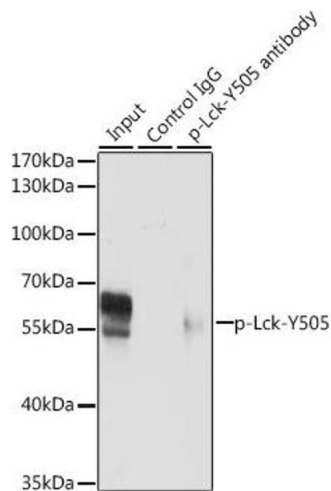
Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

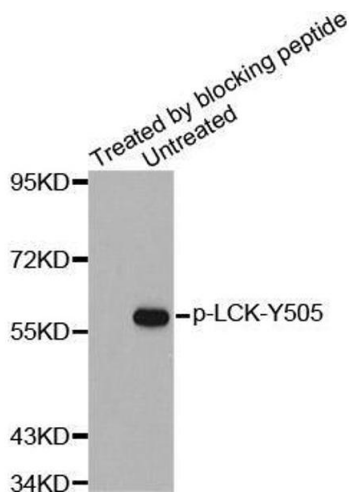
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



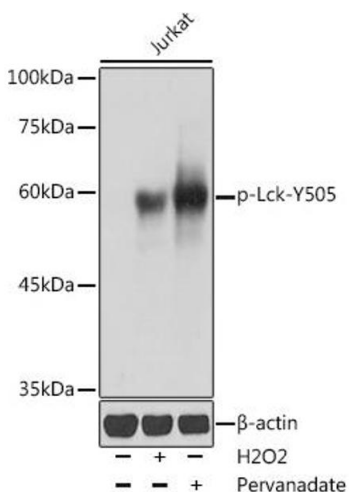
Immunoprecipitation

Image 1. Immunoprecipitation analysis of 200 µg extracts of Jurkat cells, using 3 µg Phospho-Lck-Y505 pAb (ABIN3020027, ABIN3020028, ABIN3020029 and ABIN6225502). Western blot was performed from the immunoprecipitate using Phospho-Lck-Y505 pAb (ABIN3020027, ABIN3020028, ABIN3020029 and ABIN6225502) at a dilution of 1:1000. Jurkat cells were treated by Hydrogen Peroxide (2 mM) at 37 °C for 2 minutes after serum-starvation overnight.



Western Blotting

Image 2. Western blot analysis of extracts from JK cells using Phospho-LCK-Y505 antibody and the same antibody preincubated with blocking peptide.



Western Blotting

Image 3. Western blot analysis of extracts of Jurkat cells, using Phospho-Lck-Y505 antibody (ABIN3020027, ABIN3020028, ABIN3020029 and ABIN6225502) at 1:1000 dilution. Jurkat cells were treated by Hydrogen Peroxide (2 mM) at 37 °C for 2 minutes after serum-starvation overnight. Jurkat cells were treated by Pervanadate (1 mM) at 37 °C for 30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 1s.