

## 12-4246: Phospho-Lck (Tyr505) (Clone: A3) rabbit mAb SureLight488 conjugate

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	LckY505-A3
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	SureLight 488
<b>Format :</b>	Conjugated
<b>Alternative Name :</b>	Tyrosine-protein kinase Lck, Leukocyte C-terminal Src kinase, LSK, Protein YT16, T cell-specific protein-tyrosine kinase
<b>Isotype :</b>	Rabbit IgG1k
<b>Immunogen Information :</b>	A synthetic phospho-peptide corresponding to residues surrounding Tyr505 of human phospho Lck

### Description

Lck is a member of the Src family of non-receptor tyrosine kinases and plays a major role in T cell activation. Lck activates many downstream signaling pathways including Akt/mTOR, SAPK/JNK, PLC $\gamma$ 1, and RAS/MAPK. Phosphorylation of Lck at Tyr394 in the catalytic domain at the ATP-binding site stabilizes the open and active form, while phosphorylation at Tyr505 in the C-terminal domain promotes the closed, inactive conformation. Multiple small-molecule drugs used to treat leukemia have been shown to target inhibition of Lck, including imatinib and dasatinib. Lck is thus a promising target for suppressing T-cell responses for the treatment of inflammatory diseases or after organ transplantation.

### Product Info

<b>Amount :</b>	10 Tests / 100 Tests
<b>Content :</b>	1X PBS, 0.09% NaN <sub>3</sub> , 0.2% BSA
<b>Storage condition :</b>	Store at 2-8°C. Avoid repeated freeze and thaw cycles.

### Application Note

For flow cytometric staining, the suggested use of this reagent is 5  $\mu$ L per million cells or 5  $\mu$ L per 100  $\mu$ L of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

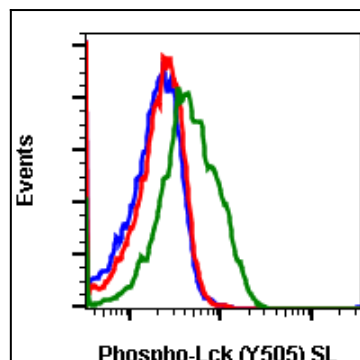


Fig-1: Flow cytometric analysis of Daudi Human Burkitt's lymphoma cells untreated and unstained as negative control (blue) or untreated and stained (red) or treated with IFN $\alpha$  plus IL4 and stained (green) using Phospho-LCK (Y505) antibody LCKY505-A3 SureLight488 conjugate.