## 12-4243: Phospho-Lck (Tyr505) (Clone: A3) rabbit mAb PE conjugate

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

## 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, PLCg1, 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

Amount : $\quad 10$ Tests / 100 Tests
Content: $\quad 1 X$ PBS, $0.09 \%$ NaN3, $0.2 \%$ BSA
Storage condition : $\quad$ Store at $2-8^{\circ} \mathrm{C}$. Avoid repeated freeze and thaw cycles.

## Application Note

For flow cytometric staining, the suggested use of this reagent is $5 \tilde{A} \square \hat{A} \mu \mathrm{~L}$ per million cells or $5 \tilde{A} \square \hat{A} \mu \mathrm{~L}$ per $100 \tilde{A} \square A ̂ \mu \mathrm{~L}$ 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, $\tilde{A}_{,, ? s}$ lymphoma cells untreated and unstained as negative control (blue) or untreated and stained (red) or treated with IFNa plus IL4 and stained (green) using Phospho-LCK (Y505) antibody LCKY505-A3 PE conjugate.

