

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

Clonality :	Monoclonal
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 protein-tyrosine kinase
Isotype :	Rabbit IgG1k
Immunogen Information :	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 γ 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

Amount :	10 Tests / 100 Tests
Content :	1X PBS, 0.09% NaN ₃ , 0.2% BSA
Storage condition :	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 μ L per million cells or 5 μ L per 100 μ L of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

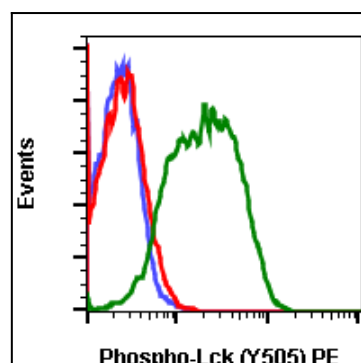


Fig-1: Flow cytometric analysis of Daudi Human Burkitt's lymphoma cells untreated and unstained as negative control (blue) or untreated and stained (red) or treated with IFN α plus IL4 and stained (green) using Phospho-LCK (Y505) antibody LCKY505-A3 PE conjugate.