

# Phospho-Lck (Tyr505) (A3) rabbit mAb APC conjugate

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## #2304

Store at: 2-8°C

**For Research Use Only. Not For Use In Diagnostic Procedures.**

Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGk

**Format:** APC

**Cross Reactivity:** Predicted to work with mouse, rat and other homologues.

**Formulation:** 1X PBS, 0.09% NaN<sub>3</sub>, 0.2% BSA

**Preparation:** Protein A+G

**Reactivity:** Human

### Recommended

**Usage:** For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Immunogen:** 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.

### References:

Serafin V, Capuzzo G, Milani G, et al. (2017) Blood. 130: 2750-2761.  
Lee KC, Ouwehand I, Giannini AL, et al. (2010) Leukemia. 24: 896-900.

