

Phospho-BLNK (Tyr84) (H4) rabbit mAb APC conjugate

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#2294

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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% NaN₃, 0.2% BSA

Preparation: Protein A+G

Reactivity: Human

Recommended

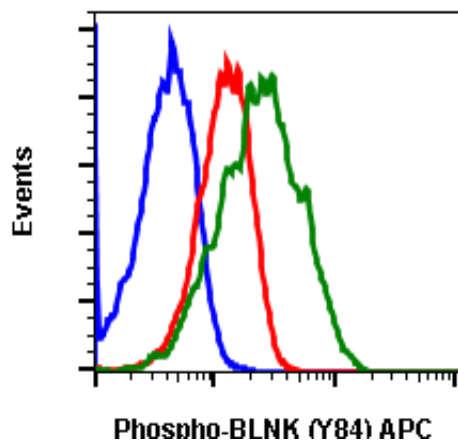
Usage: For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Tyr84 of human phospho BLNK

Description: BLNK protein, known as SLP-65 play an important role as adaptor protein in B-lineage cells. BLNK associates with proteins in the cytoplasmic side of plasma membrane through its N-terminal leucine zipper motif. Upon BLNK activation on its tyrosine, BLNK binds to Btk, Vav, Brb2, Syk, and HPK1. Through this associations, BLNK mediates Ca²⁺ mobilization, for ERK1/2, JNK and p38 MAP kinase activation. After phosphorylation, BLNK binds Btk and PLC γ 2 through their SH2 domains and mediates PLC γ 2 activation by Btk. BLNK also binds other signaling molecules such as Vav, Grb2, Syk, and HPK1. BLNK plays aa important role in BCR-dependent progression of B cell development, BCR-mediated B cell survival, activation, proliferation, and T-independent immune responses.

References:

Fu, C., et al. (1998) Immunity 9: 93?103.
Goitsuka, R., et al. (1998) J. Immunol. 161: 5804?5808.
Tsuji, S., et al. (2001) J. Exp. Med. 194: 529?539.



Flow cytometric analysis of Daudi cells unstained untreated cells as negative control (blue) or stained untreated (red) or treated with IFN γ + IL-4 + pervanadate (green) using Phospho-BLNK (Tyr84) antibody BLNKY84-H4 APC conjugate. Cat. #2294.