

TECHNICAL DATA SHEET

APC Anti-Human CD154 (CD40L) (5C8)

Catalog Number: 20-1547

PRODUCT INFORMATION

Contents: APC Anti-Human CD154 (CD40L) (5C8)

Isotype: Mouse IgG2a, kappa

Concentration: 5µl (0.25µg)/test

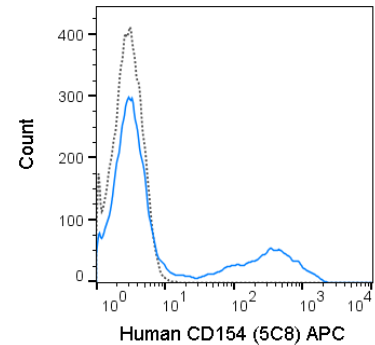
Clone: 5C8

Reactivity: Human

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C protected from light

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, 0.1% gelatin, pH7.2



Human PBMCs were stimulated with PMA + Ionomycin for 5 hours and then stained with 5 uL (0.25 ug) APC Anti-Human CD154 (20-1547) (solid line) or 0.25 ug APC Mouse IgG2a isotype control (dashed line).

DESCRIPTION

The 5C8 antibody reacts with human CD154 which is also known as CD40L (CD40 ligand). CD154 is a 39kDa member of the TNF superfamily and is predominantly expressed on activated T cells but is also expressed on NK cells, mast cells, basophils, and eosinophils. CD154 binds to CD40, a molecule that is expressed on antigen presenting cells including B cells, monocytes/macrophages, and dendritic cells. The interaction of CD154 and CD40 regulates the activation of antigen presenting cells and is critical for B cell costimulation. The 5C8 antibody has been reported to block CD40L-CD40 interactions.

PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

APPLICATION NOTES

This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 uL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 uL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10e5 to 1x10e8 cells.

REFERENCES

Lederman S, Yellin MJ, Krichevsky A, Belko J, Lee JJ, Chess L. 1992. J Exp Med. 175(4):1091-1101. Lederman S, Yellin MJ, Inghirami G, Lee JJ, Knowles DM, Chess L. 1992. J Immunol. 149(12):3817-3826. Nishioka Y, Lipsky PE. 1994. J Immunol. 153(3):1027-1036. Nadazdin, O., et al. 2011. J Immunol. 187(9): 4589-4597.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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