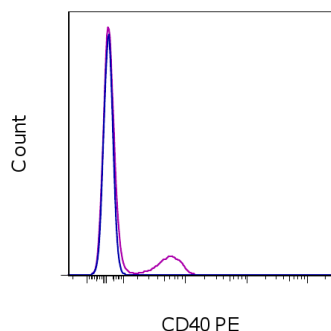


Anti-Human CD40 PE

Catalog Number: 12-0409

Also known as: TNFRSF5

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE (cat. 12-4714) (blue histogram) or Anti-Human CD40 PE (purple histogram). Cells in the lymphocyte gate were used for analysis.

Product Information



Contents: Anti-Human CD40 PE

Catalog Number: 12-0409

Clone: 5C3

Concentration: 5 μ L (0.015 μ g)/test

Host/Isotype: Mouse IgG1, kappa

HLDA Workshop: V B-CD40.4



LOT



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Description

The 5C3 monoclonal antibody reacts with human CD40, a 45-50 kDa type I transmembrane glycoprotein. CD40 is a member of the TNFR family and is expressed by B lymphocytes, follicular dendritic cells, thymic epithelium, and a subset of peripheral T cells. CD40 regulates B cell development and maturation by inducing Ig isotype-switching and in combination with other signals such as IL-4, protects B cells from surface Ig-induced apoptosis and promotes proliferation. Interaction of CD40 with CD154 (gp39), its ligand on T cells, is important in T-B cell crosstalk and plays a role in costimulation and immune regulation. 5C3 is reported to be used for activation of B cells in *in vitro* functional assays.

Applications Reported

The 5C3 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 5C3 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 μ L (0.015 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Pound JD, Challa A, Holder MJ, Armitage RJ, Dower SK, Fanslow WC, Kikutani H, Paulie S, Gregory CD, Gordon J. Minimal cross-linking and epitope requirements for CD40-dependent suppression of apoptosis contrast with those for promotion of the cell cycle and homotypic adhesions in human B cells. *Int Immunol.* 1999. Jan;11(1):11-20.

Schlossman, S., L. Bloumsell, et al. eds. *Leucocyte Typing V: White Cell Differentiation Antigens*. Oxford University Press. New York. 1995.

Related Products

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

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45-0209 Anti-Human CD20 PerCP-Cy5.5 (2H7)