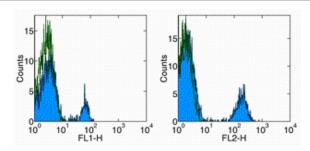


Anti-Human CD40 Functional Grade Purified

Catalog Number: 16-0409 Also Known As:TNFRSF5

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



Staining of normal human peripheral blood cells with Anti-Human CD40 FITC (left) or PE (right). Appropriate isotype controls were used (open histogram). Cells in the lymphocyte population were used for analysis.

Product Information

Contents: Anti-Human CD40 Functional Grade Purified

REF Catalog Number: 16-0409

Clone: 5C3

Concentration: 1 mg/mL

Host/Isotype: Mouse IgG1, kappa **HLDA Workshop:** V B-CD40.4

Handling Conditions: Use in sterile environment. **Endotoxin Level:** Less than 0.001 ng/ug antibody, as

determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

Temperature Limitation: Store at 2-8°C.

on 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. 5C3 has also been reported in *in vitro* functional studies.

Applications Tested

The 5C3 antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at less than or equal to 1 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

11-4011 Anti-Mouse IgG FITC

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified (P3.6.2.1)

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