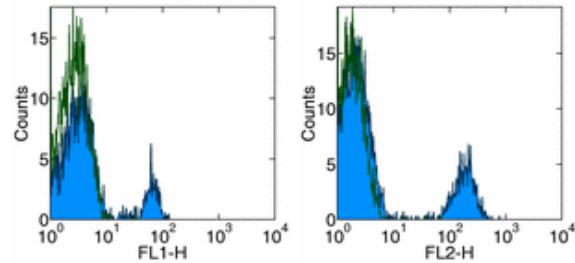


Product Information

Contents: Phycoerythrin (PE) anti-human CD40
Catalog Number: 12-0409
Sizes: 25 tests, 100 tests
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃, 0.2% BSA
Storage Conditions: Store at 4°C.
DO NOT FREEZE.
LIGHT-SENSITIVE MATERIAL.
Clone: 5C3
Isotype: Mouse IgG1, κ
HLDA No.: V B-CD40.4



Surface staining of normal human peripheral blood cells with anti-human CD40 (5C3) FITC (left), and PE (right). Appropriate isotype controls were used (open histogram). Cells in the lymphocyte population were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0409	FITC anti-human CD40	488	518	FC
12-0409	PE anti-human CD40	488	575	FC
14-0409	Affinity Purified anti-human CD40	N/A	N/A	FA FC IH/F
16-0409	Functional Grade* Purified anti-human CD40	N/A	N/A	FA FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

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.

Usage

For research use only, not for diagnostic or therapeutic use. The 5C3 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The 5C3 antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at 20 μl per 100 μl blood (or per 1 million cells in 100 μl total staining volume).

Related Products

Cat. 11-0409 FITC anti-human CD40 (clone 5C3)
Cat. 14-0409 Affinity Purified anti-human CD40 (clone 5C3)
Cat. 16-0409 Functional Grade Purified anti-human CD40 (clone 5C3)
Cat. 12-4714 Phycoerythrin (PE) Mouse IgG1, K Isotype Control

References

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

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