Product Data Sheet

FITC anti-human CD40

Catalog # / Size: 2271530 / 100 tests

2271525 / 25 tests

Clone: 5C3

Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

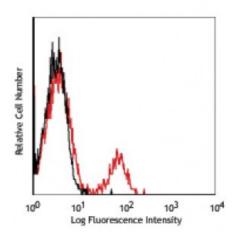
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Workshop Number: V CD40.4

Concentration: Lot-specific



Human peripheral blood

lymphocytes stained with 5C3 FITC

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application.

Application

Notes:

Additional reported applications (for the relevant formats) include: costimulation of B cell proliferation1, partial inhibition of CD40 binding to CD40L3, and B cell rescue from apoptosis1. The LEAF™ purified antibody (Endotoxin <0.1 EU/microg, Azida Fron 0.2 µm filtered) is recommended for functional assays.

Azide-Free, 0.2 μm filtered) is recommended for functional assays.

Application References:

1. Schlossman SF, et al. 1995. ed. Leukocyte Typing V:White Cell Differentiation

Antigens. New York:Oxford University Press.

2. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

3. Pound JD, et al. 1999. Int. Immunol. 11:11. (Block)

Description: CD40 is a 48 kD type I glycoprotein also known as BP50. It is a member of the

TNFR superfamily primarily expressed on B cells, macrophages, follicular dendritic cells, endothelial cells, fibroblasts, and at low levels on plasma cells. CD40 has been reported to be involved in B cell differentiation, costimulation, isotype class-switching, and protection of B cells from apoptosis. Additionally, CD40 is

important for T cell-B cell interactions. The ligand of CD40 is CD154 (CD40 ligand). The 5C3 antibody has been reported to promote B cell proliferation in the presence of anti-lgM, IL-4 or PMA, partially blocking CD40 binding to CD40L, and B

cells rescue from apoptosis.

Antigen

1. Banchereau J. et al. 1994. Annu. Rev. Immunol. 12:881.

References: 2. Foy T, et al. 1996. Annu. Rev. Immunol. 14:591.