Alexa Fluor® 647 anti-human CD40

Catalog # / Size: 2271555 / 25 tests

2271560 / 100 tests

Clone:

Isotype: Mouse IgG1, κ

Reactivity: Human

The antibody was purified by affinity **Preparation:**

chromatography, and conjugated with

Alexa Fluor® 647 under optimal

conditions.

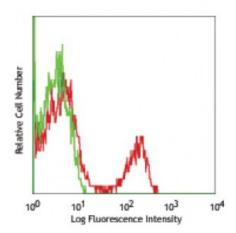
Formulation: Phosphate-buffered solution, pH 7.2,

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 Alexa

Fluor® 647

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

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, 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 classswitching, 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-IgM, 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.

