

Product Data Sheet

APC anti-human CD40

Catalog # / Size: 334309 / 25 tests

334310 / 100 tests

Clone: 5C3

Isotype: Mouse IgG1, κ

Workshop Number: V CD40.4

Reactivity: Human, Cross-Reactivity: Baboon, Chimpanzee, Cynomolgus Monkey,

Rhesus, Squirrel Monkey

Preparation: The antibody was purified by affinity chromatography, and conjugated with

APC under optimal conditions. The solution is free of unconjugated APC and

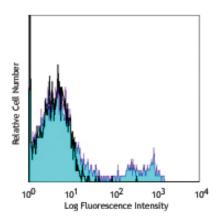
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and

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

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



Human peripheral blood lymphocytes stained with 5C3 APC

Applications:

Applications: FC - Quality tested

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 µl to 5 µl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at

www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported applications (for the relevant formats) include: costimulation of B cell proliferation¹, partial

inhibition of CD40 binding to CD40L, and B cell rescue from apoptosis¹. The LEAF™ purified antibody (Endotoxin

<0.1 EU/µg, 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. Yi HJ, et al. 2012. Cell Immunol. 277:44. PubMed.

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-IgM, IL-4 or

PMA, partially blocking CD40 binding to CD40L, and B cells rescue from apoptosis.

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

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

APC Mouse IgG1, κ Isotype Ctrl

Cell Staining Buffer RBC Lysis Buffer (10X)

Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone MOPC-21

Application FC, ICFC FC, ICC, ICFC FC, ICFC FC, ICC, ICFC



Related Products: Product

