

Product Data Sheet

LEAF™ Purified anti-human CD40

Catalog # / Size: 334303 / 50 µg

334304 / 500 µg

Clone: 5C3

Isotype: Mouse IgG1, κ

Workshop Number: V CD40.4

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

Rhesus, Squirrel Monkey

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity

chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no

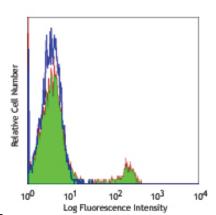
preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the

protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution

contains no preservative; handle under aseptic conditions.



Human peripheral blood lymphocytes stained with LEAFTM purified 5C3, followed by anti-mouse IgG FITC

Applications:

Applications: FC - Quality tested

Block, Activ - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For

immunofluorescent staining, the suggested use of this reagent is ≤0.5 μg per million cells in 100 μl volume. 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 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.

1. Schlossman SF, et al. 1995. ed. Leukocyte Typing V:White Cell Differentiation Antigens. New York:Oxford Application References:

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

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.

Related Products: Product Clone Application MOPC-21

LEAF™ Purified Mouse IgG1, κ Isotype Ctrl Cell Staining Buffer RBC Lysis Buffer (10X)

FC, ICFC, WB, IP, ICC, IF, FA FC, ICC, ICFC



