

CD40 Monoclonal Antibody (5C3), eFluor™ 450, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	5C3
Conjugate	eFluor™ 450
Excitation/Emission Max	405/445 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10852566

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	7 Publications

Product Specific Information

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.

Applications Reported: This 5C3 antibody has been reported for use in flow cytometric analysis.

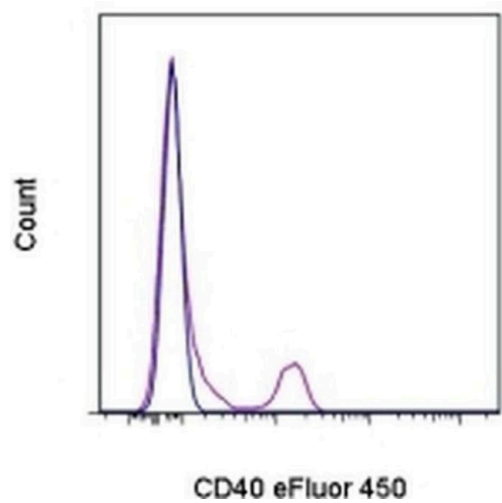
Applications Tested: This 5C3 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; **Emission:** 445 nm; **Laser:** Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD40 Monoclonal Antibody (5C3), eFluor™ 450, eBioscience™



CD40 Antibody (48-0409-42) in Flow
Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control eFluor® 450 (Product # 48-4714-82) (blue histogram) or Anti-Human CD40 eFluor® 450 (purple histogram). Cells in the lymphocyte gate were used for analysis.

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7 References

Flow Cytometry (7)

<p>Reproductive biology and endocrinology : RB&E</p> <p>Recombinant human IL-37 inhibited endometriosis development in a mouse model through increasing Th1/Th2 ratio by inducing the maturation of dendritic cells.</p> <p>"Published figure using CD40 monoclonal antibody (Product # 48-0409-42) in Flow Cytometry"</p> <p>Authors: Li L,Liao Z,Ye M,Jiang J</p>	<p>Year</p> <p>2021</p>
<p>Immunology and cell biology</p> <p>Activated monocytes and markers of inflammation in newly diagnosed multiple sclerosis.</p> <p>"Published figure using CD40 monoclonal antibody (Product # 48-0409-42) in Flow Cytometry"</p> <p>Authors: Carstensen M,Christensen T,Stilund M,Møller HJ,Petersen EL,Petersen T</p>	<p>Year</p> <p>2020</p>

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