

CD40 Monoclonal Antibody (1C10), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	1C10
Conjugate	APC
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469386

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	42 Publications

Product Specific Information

Description: The 1C10 monoclonal antibody reacts with mouse CD40, a 45-50 kDa type I transmembrane glycoprotein. CD40 is a member of the TNFR family and is expressed by mouse B lymphocytes, follicular dendritic cells, thymic epithelium, and a subset of peripheral T cells. CD40 regulates B cell development/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.

The monoclonal antibody 1C10 is reported to have agonistic activity in vitro and in vivo.

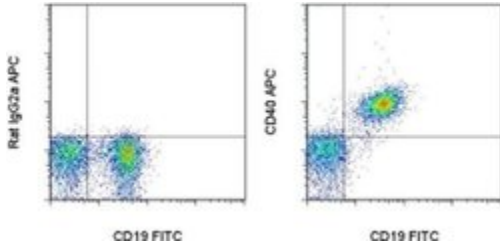
Applications Reported: The 1C10 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 1C10 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD40 Monoclonal Antibody (1C10), APC, eBioscience™



CD40 Antibody (17-0401-82) in Flow

Staining of BALB/c splenocytes with Anti-Mouse CD19 FITC (Product # 11-0193-82) and 0.125 µg of Rat IgG2a K Isotype Control APC (Product # 17-4321-81) (left) or 0.125 µg of Anti-Mouse CD40 APC (right). Total viable cells were used for analysis.

[View more figures on thermofisher.com](#)

42 References

Flow Cytometry (42)

Frontiers in immunology

FcRI -Chain Negatively Modulates Dectin-1 Responses in Dendritic Cells.

Authors: Pan YG,Yu YL,Lin CC,Lanier LL,Chu CL

Species

Mouse
Not Applicable

Dilution

Not Cited
Not Cited

Year

2019

Nature communications

Chemo-photothermal therapy combination elicits anti-tumor immunity against advanced metastatic cancer.

"17-0401 was used in Flow cytometry/Cell sorting to show that chemo-photothermal therapy tuned to elicit anti-tumour immunity can exert striking therapeutic effects against primary and disseminated tumours."

Authors: Nam J,Son S,Ochyl LJ,Kuai R,Schwendeman A,Moon JJ

Species

Mouse

Dilution

Not Cited

Year

2018

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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