

CD40 Monoclonal Antibody (HM40-3), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse, Rat
Published Species	Artificial Control, Rat, Mouse
Host/Isotype	Armenian hamster / IgM, kappa
Class	Monoclonal
Type	Antibody
Clone	HM40-3
Conjugate	FITC
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465029

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	30 Publications

Product Specific Information

Description: The HM40-3 monoclonal antibody reacts with mouse and rat 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.

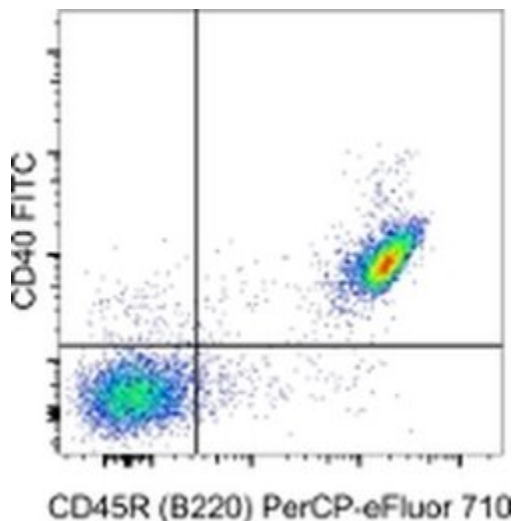
Applications Reported: The HM40-3 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The HM40-3 antibody has been tested by flow cytometric analysis of mouse splenocytes and can be used at less than or equal to 1 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: 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD40 Monoclonal Antibody (HM40-3), FITC, eBioscience™



CD40 Antibody (11-0402-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Human/Mouse CD45R (B220) PerCP-eFluor® 710 (Product # 46-0452-82) and 0.5 µg of Anti-Mouse/Rat CD40 FITC. Total viable cells were used for analysis.

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

30 References

Flow Cytometry (30)

Cytotechnology

Co-culture of the 55-6 B cell hybridoma with the EL-4 thymoma cell. Effect on cell growth and monoclonal antibody production.

"11-0402 was used in Flow cytometry/Cell sorting to investigate the effect of different initial ratios when co-culturing the 55-6 hybridoma cells with the murine thymoma cell line EL-4."

Authors: Martín-López A, Acosta-López L, García-Camacho F, Contreras-Gómez A, Molina-Grima E

Species
Mouse

Dilution
Not Cited

Year
2013

PloS one

Immunogenicity and protective capacity of a virosomal respiratory syncytial virus vaccine adjuvanted with monophosphoryl lipid A in mice.

"11-0402 was used in Flow cytometry/Cell sorting to assess the efficacy of a novel respiratory syncytial virus vaccine in mice."

Authors: Kamphuis T, Meijerhof T, Stegmann T, Lederhofer J, Wilschut J, de Haan A

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2012

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