CD38 Monoclonal Antibody (90), APC, eBioscience™

Product Details

Size	100 μg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	90
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 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_469382

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 μg/test	22 Publications

Product Specific Information

Description: The 90 monoclonal antibody reacts with the mouse CD38 molecule, an ~42 kDa type II transmembrane protein. CD38 is expressed at increasingly higher levels on B cells at each stage of B-cell differentiation, and is then down-regulated on germinal center B cells and mature plasma cells. Its expression is reported on a subpopulation of thymocytes, mature T cells, and NK cells. Crosslinking of CD38 on the surface of mature, resting B cells induces B-cell proliferation, which is enhanced by co-signals such as IL-4 and LPS. CD38, a counter-receptor for CD31, is an ectoenzyme with cyclase and hydrolase enzymatic activity and is speculated to play a role in lymphocyte activation and differentiation.
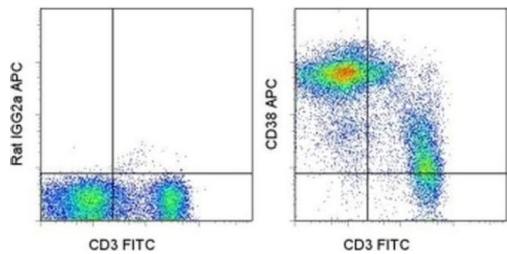
Applications Reported: The 90 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 90 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.06 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 10^5 to 10^8 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.

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Product Images For CD38 Monoclonal Antibody (90), APC, eBioscience™

CD38 Antibody (17-0381-82) in Flow
Staining of C57Bl/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.03 µg of Rat IgG2a K Isotype Control APC (Product # 17-4321-81) (left) or 0.03 µg of Anti-Mouse CD38 APC (right). Cells in the lymphocyte gate were used for analysis.

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🔖 22 References

Flow Cytometry (22)

Vaccines	**Year** 2021
Alphavirus-Driven Interferon Gamma (IFNg) Expression Inhibits Tumor Growth in Orthotopic 4T1 Breast Cancer Model.	
"Published figure using CD38 monoclonal antibody (Product # 17-0381-82) in Flow Cytometry"	
Authors: Trofimova O,Korotkaja K,Skrastina D,Jansons J,Spunde K,Isaguliants M,Zajakina A	

EMBO molecular medicine	**Year** 2021
Pro-inflammatory immunity supports fibrosis advancement in epidermolysis bullosa: intervention with Ang-(1-7).	
"Published figure using CD38 monoclonal antibody (Product # 17-0381-82) in Flow Cytometry"	
Authors: Bernasconi R,Thriene K,Romero-Fernández E,Gretzmeier C,Kühl T,Maler M,Nauroy P,Kleiser S,Rühl-Muth AC,Stumpe M,Kiritsi D,Martin SF,Hinz B,Bruckner-Tuderman L,Dengjel J,Nyström A	

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