full spectrum cell analysis®
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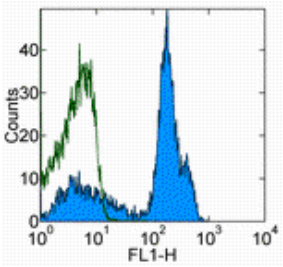
Anti-Mouse CD38 FITC

Catalog Number: 11-0381
Also Known As:ADP-Ribosyl Cyclase, Cyclic ADP-Ribose Hydrolase
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57BL/6 splenocytes with 0.03 ug of Rat IgG2a K Isotype Control FITC (cat. 11-4321) (open histogram) or 0.03 ug of Anti-Mouse CD38 FITC (filled histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD38 FITC
REF **Catalog Number:** 11-0381
Clone: 90
Concentration: 0.5 mg/mL
Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

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 splenocyte suspensions. 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.

References

Oliver, A. M., J. C. Grimaldi, et al. 1999. Independently ligating CD38 and Fc gammaRIIB relays a dominant negative signal to B cells. Hybridoma 18(2): 113-9.

Oliver, A. M., F. Martin, et al. 1997. Marginal zone B cells exhibit unique activation, proliferative and immunoglobulin secretory responses. Eur J Immunol 27(9): 2366-74.

Oliver, A. M., F. Martin, et al. 1997. Mouse CD38 is down-regulated on germinal center B cells and mature plasma cells. J Immunol 158 (3): 1108-15.

Related Products

11-4321 Rat IgG2a K Isotype Control FITC (eBR2a)

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