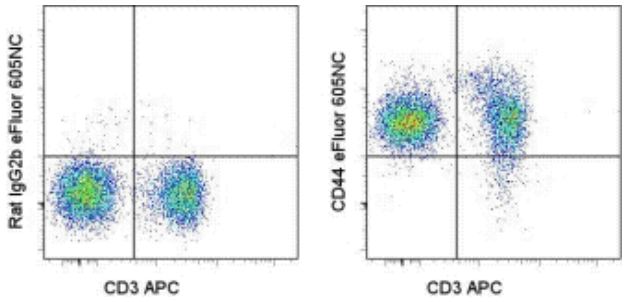
full spectrum cell analysis®
eBioscience®

Anti-Human/Mouse CD44 eFluor® 605NC

Catalog Number: 93-0441
Also Known As:Pgp-1, MDU3, Hermes, Hyaluronate receptor
RUO: For Research Use Only



Staining of BALB/c splenocytes with Anti-Mouse CD3e APC (cat. 17-0031) and Rat IgG2b K Isotype Control eFluor® 605NC (cat. 93-4031) (left) or Anti-Human/Mouse CD44 eFluor® 605NC (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human/Mouse CD44 eFluor® 605NC
REF Catalog Number: 93-0441
Clone: IM7
Concentration: 5 uL
Host/Isotype: Rat IgG2b, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Light sensitive material. This product is guaranteed for 6 months upon receipt when stored properly.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The IM7 monoclonal antibody reacts with all isoforms of mouse CD44 (Pgp-1). CD44 is expressed by hematopoietic and non-hematopoietic cells. Bone marrow myeloid cells and memory T cells highly express this antigen and peripheral B and T cells can upregulate the expression of CD44. CD44 functions as an adhesion molecule through its binding to hyaluronate, an extracellular matrix component.

Applications Reported

This IM7 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This IM7 antibody has been pre-titrated and tested by flow cytometric analysis of mouse splenocytes using eFluor NC Flow Cytometry Staining Buffer (cat. 00-3222). This can be used at 5 µl per test. A test is defined as the amount 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.

The isotype control eFluor 605NC rat IgG2b (cat. 93-4031) should be used at 5µl/test.

Laser/Filter Recommendation: When using eFluor 605NC, we recommend excitation with the 405nm violet laser with an appropriate filter set, such as the 595LP dichroic mirror with the 605/40 bandpass filter. An acceptable alternative is the 610/20 bandpass filter. For instruments not equipped with a violet laser, the eFluor 605NC is also excited by the 488 nm blue laser and can be used as a PE-Texas Red alternative. Please contact eBioscience Technical Support for more information.

Buffer Recommendation: Comparison of eFluor Nanocrystal conjugated antibody staining in different buffers has demonstrated that optimal performance is seen with the eFluor NC Flow Cytometry Staining Buffer (cat. 00-3222). For a comparison of staining with different buffers, refer to eFluor® Nanocrystals page.

Fixation Recommendation: When fixing samples that have been stained with nanocrystal reagents, we recommend keeping the total volume at approximately 200 µl for fixation and the exposure time 30-60 minutes to preserve the optimal fluorescent signal from the nanocrystal reagent.

For answers to additional questions about fixation and other FAQs refer to eFluor® Nanocrystal Frequently Asked Questions.

References

Trowbridge, I. S., J. Lesley, et al. 1982.Biochemical characterization and cellular distribution of a polymorphic, murine cell-surface glycoprotein

expressed on lymphoid tissues. Immunogenetics 15(3): 299-312.

Lesley, J. and I. S. Trowbridge 1982. Genetic characterization of a polymorphic murine cell-surface glycoprotein. Immunogenetics 15(3): 313-20.

Maiti A, Maki G, Johnson P. TNF-alpha induction of CD44-mediated leukocyte adhesion by sulfation. Science. 1998. Oct 30;282(5390):941-3.

Related Products

00-3222 eFluor® NC Flow Cytometry Staining Buffer
17-0031 Anti-Mouse CD3e APC (145-2C11)
93-4031 Rat IgG2b K Isotype Control eFluor® 605NC

Legal

Under patent number: US 7,939,170 and additional pending patent application(s)

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