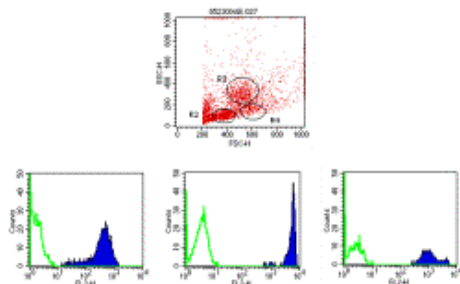


Anti-Human/Mouse CD44 PE

Catalog Number: 12-0441

Also Known As: Pgp-1, MDU3, Hermes, Hyaluronate receptor

RUO: For Research Use Only



Differential expression of Anti-Human/Mouse CD44 PE on mouse bone marrow cells. BALB/c bone marrow cells were stained with 0.06 µg of Anti-Human/Mouse CD44 PE. Total viable cells were gated further on their light scatter profile. The lymphoid lineage cells (R2) express Anti-Human/Mouse CD44 PE at an intermediate level, while the myeloid lineage cells (R3 & R4) display much higher levels of Anti-Human/Mouse CD44 PE surface expression. The overlay histogram on each panel (green) is the autofluorescence of cells.

Product Information

Contents: Anti-Human/Mouse CD44 PE


REF Catalog Number: 12-0441

Clone: IM7

Concentration: 0.2 mg/ml


Host/Isotype: Rat IgG2b, κ

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 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

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

Applications Tested

The IM7 antibody has been tested by flow cytometric analysis of mouse bone marrow cells and splenocyte suspensions. This can be used at less than or equal to 0.125 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.

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

12-4031 Rat IgG2b K Isotype Control PE

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