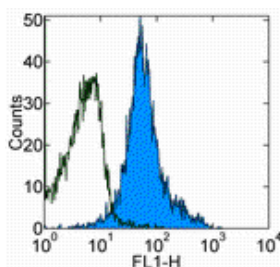


Anti-Human/Mouse CD44 Functional Grade Purified

Catalog Number: 16-0441

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

RUO: For Research Use Only



Staining of BALB/c splenocytes with 0.06 µg of Rat IgG2b κ Isotype Control Functional Grade Purified (cat. 16-4031) (open histogram) or 0.06 µg of Anti-Human/Mouse CD44 Functional Grade Purified (filled histogram) followed by Anti-Rat IgG FITC (cat. 11-4811). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human/Mouse CD44 Functional Grade Purified

REF **Catalog Number:** 16-0441

Clone: IM7

Concentration: 1 mg/ml

Host/Isotype: Rat IgG2b, κ


Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

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. IM7 has also been reported in complement-dependent cytotoxicity.

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

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

16-4031 Rat IgG2b K Isotype Control Functional Grade Purified

17-4317 Streptavidin APC

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