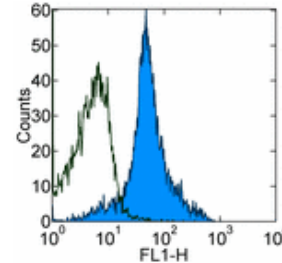


Product Information

Contents: Affinity Purified anti-mouse/human CD44
Catalog Number: 14-0441
Sizes: 50 ug, 100 ug, 500 ug, 1 mg
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃
Storage Conditions: Store at 4°C.
Avoid repeated freeze/thaw cycles.
Clone: IM7
Isotype: Rat IgG2b, κ



Staining of C57Bl/6 splenocytes with 0.06 µg of Purified Rat IgG2b Iso Cntrl (cat. 14-4331) (open histogram) or 0.06 µg of Purified IM7 (colored histogram) followed by FITC Anti-Rat IgG (cat. 11-4811). Total viable cells were used for analysis.

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
10-0441	Allophycocyanin-Cy7 (APC-Cy7) anti-mouse/human CD44 (Pgp-1, Ly-24)	633	760	FC
11-0441	FITC anti-mouse/human CD44 (Pgp-1, Ly-24)	488	518	FC
12-0441	PE anti-mouse/human CD44 (Pgp-1, Ly-24)	488	575	FC
13-0441	Biotin anti-mouse/human CD44 (Pgp-1, Ly-24)	N/A	N/A	FC
14-0441	Affinity Purified anti-mouse/human CD44 (Pgp-1, Ly-24)	N/A	N/A	FA FC IHC IP
15-0441	PE-Cy5 anti-mouse/human CD44 (Pgp-1, Ly-24)	488	670	FC
16-0441	Functional Grade* Purified anti-mouse/human CD44 (Pgp-1, Ly-24)	N/A	N/A	FA FC
17-0441	APC anti-mouse/human CD44 (Pgp-1, Ly-24)	633	660	FC
25-0441	Phycoerythrin-Cy7 (PE-Cy7) anti-mouse/human CD44 (Pgp-1, Ly-24)	488	760	FC
35-0441	PE-Cy5.5 anti-mouse/human CD44 (Pgp-1, Ly-24)	488	690	FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/µg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

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.

Usage

For research use only, not for diagnostic or therapeutic use. The IM7 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining. It has also been reported in complement-dependent cytotoxicity. (Please use Functional Grade purified IM7, cat. 16-0441, in functional assays.)

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 million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 14-4031 Purified Rat IgG2b Isotype Control (clone eB149/10H5)
Cat. 18-4100 Avidin Horse Radish Peroxidase (AV-HRP)
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 11-4811 FITC Anti-Rat IgG
Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

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.

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