

Product Information

Contents: Phycoerythrin (PE) anti-mouse/human CD44 (Pgp-1, Ly-24)

Catalog Number: 12-0441

Sizes: 50 ug, 100 ug, 200 ug, 500 ug

Formulation: Phosphate buffer pH 7.2, 150 mM NaCl, 0.09% NaN<sub>3</sub>

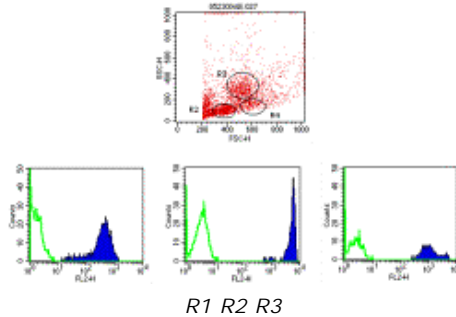
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: IM7

Isotype: Rat IgG2b, κ



*Differential expression of CD44 on mouse bone marrow cells. BALB/c bone marrow cells were stained with PE-anti-mouse CD44 (IM7) at 0.06 µg/million cells. Total viable cells were gated further on their light scatter profile. The lymphoid lineage cells (R2) express CD44 at an intermediate level, while the myeloid lineage cells (R3 & R4) display much higher levels of CD44 surface expression. The overlay histogram on each panel (green) is the autofluorescence of cells.*

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.

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. 11-0441 FITC anti-mouse/human CD44 (Pgp-1, Ly-24) (clone IM7)
- Cat. 13-0441 Biotin anti-mouse/human CD44 (Pgp-1, Ly-24) (clone IM7)
- Cat. 14-0441 Affinity Purified anti-mouse/human CD44 (Pgp-1, Ly-24) (clone IM7)
- Cat. 15-0441 PE-Cy5 anti-mouse/human CD44 (Pgp-1, Ly-24) (clone IM7)
- Cat. 16-0441 Functional Grade Purified anti-mouse/human CD44 (Pgp-1, Ly-24) (clone IM7)
- Cat. 17-0441 APC anti-mouse/human CD44 (Pgp-1, Ly-24) (clone IM7)
- Cat. 35-0441 PE-Cy5.5 anti-mouse/human CD44 (Pgp-1, Ly-24) (clone IM7)
- Cat. 12-4031 Phycoerythrin (PE) Rat IgG2b Isotype Control (clone eB149/10H5)

---

#### 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.