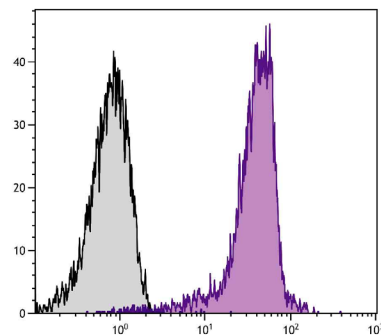




Rat Anti-Mouse CD44

Cat. No.	Format	Size
1500-01	Purified (UNLB)	0.5 mg
1500-02	Fluorescein (FITC)	0.5 mg
1500-08	Biotin (BIOT)	0.5 mg
1500-09	R-phycoerythrin (PE)	0.1 mg
1500-09L	R-phycoerythrin (PE)	0.2 mg
1500-11	Allophycocyanin (APC)	0.1 mg
1500-13	Spectral Red® (SPRD)	0.1 mg
1500-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg



C57BL/6 mouse bone marrow cells were stained with Rat Anti-Mouse CD44-APC (SB Cat. No. 1500-11).

Overview

Clone	KM201
Isotype	Rat (LOU/MN) IgG ₁ κ
Immunogen	(C57BL/6 x DBA/2)F ₁ mouse bone marrow-derived stromal clone BMS2
Specificity	Mouse CD44 (all isoforms); Mr 80-95 kDa
Alternate Name(s)	Pgp-1, H-CAM, HUTCH-1, ECMR-III

Description

CD44 represents a family of type I transmembrane glycoproteins expressed on many cell types such as B cells, monocytes, macrophages, and variable subsets of thymocytes and peripheral T cells. CD44 primarily functions as an adhesion molecule. It has been implicated in various processes, such as hematopoiesis, lymphocyte homing, leukocyte activation, tumor metastasis and development. The KM201 monoclonal antibody reacts with an epitope very close to the hyaluronate binding domain on the CD44 molecule. KM201 can inhibit hyaluronate-dependent cell aggregation, prevent lympho-hemopoiesis in both Dexter and Whitlock-Witte cultures, prevent the earliest intrathymic precursors from homing to the thymus, and costimulate the activation of freshly purified splenic CD4⁺ T cells.

Applications

FC – Quality tested ^{1,3,4,8-12}
 IHC-FS – Reported in literature ²
 IHC-PS – Reported in literature ⁴
 ICC – Reported in literature ⁵
 IP – Reported in literature ^{1,5,7}
 WB – Reported in literature ^{3-5,7}
 Block – Reported in literature ^{5,6}
 Adhesion – Reported in literature ^{4,7}

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates	≤ 2 μg/10 ⁶ cells
	PE, APC, and SPRD conjugates	≤ 0.2 μg/10 ⁶ cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL		

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

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Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red[®] (SPRD) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

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