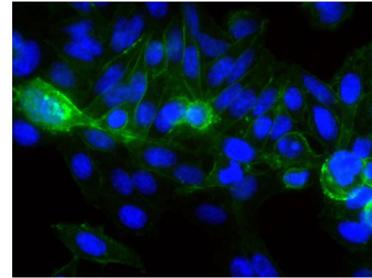




Mouse Anti-Human CD44

Cat. No.	Format	Size
9400-01	Purified (UNLB)	0.1 mg
9400-02	Fluorescein (FITC)	100 tests
9400-02S	Fluorescein (FITC)	25 tests
9400-08	Biotin (BIOT)	100 tests
9400-09	R-phycoerythrin (PE)	100 tests
9400-09S	R-phycoerythrin (PE)	25 tests
9400-11	Allophycocyanin (APC)	100 tests
9400-11S	Allophycocyanin (APC)	25 tests
9400-13	Spectral Red® (SPRD)	100 tests
9400-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
9400-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	100 tests
9400-26	Pacific Blue™ (PACBLU)	100 tests
9400-27	Alexa Fluor® 700 (AF700)	100 tests
9400-30	Alexa Fluor® 488 (AF488)	100 tests
9400-31	Alexa Fluor® 647 (AF647)	100 tests



Human epithelial carcinoma cell line HEP-2 was stained with Mouse Anti-Human CD44-FITC (SB Cat. No. 9400-02) followed by DAPI.

Overview

Clone	F10-44-2
Isotype	Mouse (BALB/c) IgG _{2aκ}
Immunogen	Purified T cells from human lymph nodes
Specificity	Human/Ma's Night Monkey CD44; Mr 80 - 95 kDa
Alternate Name(s)	Pgp-1, H-CAM, ECMR-III, HUTCH-1
Workshop	III 402, 408; IV B51, M157, N95, N709; V S330

Description

CD44, also known as phagocytic glycoprotein-1 (Pgp-1), exists as a large number of different isoforms resulting from alternative RNA splicing. The major isoform expressed on lymphocytes, myeloid cells, and erythrocytes is a glycosylated type I transmembrane protein. Other variable isoforms containing glycosaminoglycans have molecular weights ranging from 110 to 250 kDa and are widely expressed on hematopoietic and non-hematopoietic cells. CD44 contributes to the adhesion of leukocytes to endothelial cells, stromal cells, and the extracellular matrix. It also plays a functional role in cell migration, lymphocyte homing, and adhesion during hematopoiesis and lymphocyte activation.

Applications

FC – Quality tested ^{2,9-16}
 IHC-FS – Reported in literature ²⁻⁴
 IHC-PS – Reported in literature ^{5,6}
 ICC – Reported in literature ^{7,8}
 IP – Reported in literature ^{10,12,17,18}
 WB – Reported in literature ^{7,19,20}
 Adhesion – Reported in literature ^{20,23}
 Activ – Reported in literature ²⁰⁻²²
 Block – Reported in literature ²³
 Cyto – Reported in literature ²
 CMCD – Reported in literature ²⁴
 Depletion – Reported in literature ¹²
 Purification – Reported in literature ^{9,11}

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 µg/10 ⁶ cells
	FITC, BIOT, PE, APC, SPRD, PE/CY7, AF488, AF647, AF700, and PACBLU conjugates	10 µL/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.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 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 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD) and R-phycoerythrin-Cyanine 7 (PE/CY7) conjugates are supplied as 100 tests 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 purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), Alexa Fluor® 700 (AF700), and Pacific Blue™ (PACBLU) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°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 SDS.

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