



CELL LAB Rat Anti-Mouse CD44/Pgp-1

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
731956	Purified (UNLB) Antibody	0.5 mg
731957	Fluorescein (FITC) Conjugate	0.5 mg
731958	Biotin (BIOT) Conjugate	0.5 mg
731959	Phycoerythrin (PE) Conjugate	0.1 mg
731960	Allophycocyanin (APC) Conjugate	0.1 mg
731961	Spectral Red™ (SPRD) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: KM201
Isotype: Rat IgG1 κ
Specificity: All isoforms of CD44/pgp-1 (Mr 80-95 kDa)

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.³ KM201 monoclonal antibody (MAb) reacts with an epitope very close to the hyaluronate binding domain on the CD44 molecule.⁴ The KM201 MAb can inhibit hyaluronate-dependent cell aggregation,⁴ prevent lympho-hemopoiesis in both Dexter and Whitlock-Witte Cultures,¹ prevent the earliest intrathymic precursors from homing to the thymus,⁵ and co-stimulate the activation of freshly purified splenic CD4⁺ T cells.⁶

APPLICATIONS

- Identification and enumeration of CD44⁺ cells by flow cytometry¹⁻⁷
- Studies of cell adhesion and homing⁴⁻⁵
- Immunoprecipitation^{1,8}
- Western blotting⁸

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using immunofluorescence staining and flow cytometry.

WORKING DILUTIONS

Flow Cytometry:

Fluorescein conjugate	$\leq 2 \mu\text{g}/10^6$ cells
Biotin conjugate	$\leq 2 \mu\text{g}/10^6$ cells
Phycoerythrin conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells
Allophycocyanin conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells
Spectral Red conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells

Other Applications: Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.
- The Phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.
- The Spectral Red (SPRD) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.
- Protect fluorochrome-conjugated forms from light. Do not freeze.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Minimize exposure of reagent to light during storage or incubation.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use Good Laboratory Practice (GLP) when handling this reagent.
7. Harmful if swallowed.
8. After contact with skin, wash immediately with plenty of water.
9. Contains sodium azide. Sodium azide under acidic conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, immediately wash excessively with water.

TRADEMARKS

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CY5 is a trademark of GE Healthcare Inc.

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