

**anti-mouse CD44 FITC-conjugated****Cat-No.: M22151F**      **1 ml****Clone:** KM81**Specificity:**

The anti-mouse CD44 (Pgp-1, Ly 24) monoclonal antibody recognizes a 95 kDa glycoprotein found on most hematopoietic cells (1). It is thought to be important in the regulation of migratory properties of lymphocytes during development and the regulation of the interaction with bone marrow stromal cells during hematopoiesis (2,3). CD44 functions as a receptor for hyaluronate, although some cells expressing CD44 do not bind hyaluronate (3,4). This antibody has been shown to inhibit the growth of lymphoid and myeloid cells on long term bone marrow cultures (3). It also blocks the adhesive interactions of B cell hybridomas to a cloned stromal line or to hyaluronate coated dishes (4).

**Isotype subclass:** Rat IgG2a**Form:** Purified from ascitic fluid via Protein G Chromatography, FITC conjugated**Physical state:** Liquid**Buffer/Additives/Preservative:** PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.4).**Expiration date:** The reagent is stable until the expiry date stated on the vial label.**Storage conditions:** Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.**Application:**

Flow Cytometry

Immunohistology with frozen and acetone fixed section

**References:**

1. Lynch, F., and Ceredig R. Ly-24 (Pgp-1) expression by thymocytes and peripheral T cells. *Immunol. Today* 9:7.0.
2. Picker, L.J., De Pos Toyos J, Telen MJ et al. Monoclonal antibodies against CD44 [In (Lu)-related P80], and Pgp-1 antigens in man recognize the Hermes class of lymphocyte homing receptors. *J. Immunol.* 1989; 142:2046-51.
3. Miyake K, Medina K, Hayashi S-I et al. Monoclonal antibodies to Pgp-1/CD44 block lymphohemopoiesis in long term bone marrow cultures. *J. Exp. Med.* 1990; 171:477-488.
4. Miyake K, Underhill CB, Lesley J. et al. Hyaluronate can function as a cell adhesion molecule and CD44 participates in hyaluronate recognition. *J. Exp. Med* 1990; 172:69-75.

**Warning:**

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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