EuroBioSciences

Data Sheet

anti-mouse Gr-1 FITC-conjugated

Cat-No.: M22138F **1 ml**

Clone: RB6-8C5

Specificity:
The anti-mouse Gr-1 monoclonal antibody reacts with the myeloid differentiation antigen GR-1. (1,2). This 25-30 kDa cell surface antigen is expressed on myeloid cells but not lymphoid or erythroid cells. The expression of the Gr-1 antigen increases with granulocyte maturation (3) as shown by the distinct populations of bone-marrow cells this monoclonal antibody labels: negative, low positive and high positive. Expression is transient on cells of monocytic lineage (3). The antibody is a useful antibody for studies of myeloid differentiation stages and their regulations by cytokines. Applications include flow cytometry (1,2,3) and Western blot staining (5).

Isotype subclass: Rat IgG2b

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
Western Blot

References:
1. Spangrude, G.J., et al.. Purification and characterization of mouse hematopoietic stem cells. Science 241:58-62, 1991. 2. Muller, C. E. et al. Isolation of two early B lymphocyte progenitors from mouse marrow: a committed pre-pre-B cell and a clonogenic thy-1 lo hematopoietic stem cell. Cell 44:653-662. 3. H. Kjetil et al. Characterization and regulation of RB6-8C5 antigen expression on murine bone marrow cells. 1991. J. Immunol. 147: 22-28. 4. Brummer, Elmer et al. Immunological activation of polymorphonuclear neutrophils for fungal killing: Studies with murine cells and blastomyces dermatitidis in vitro. J. Leuko. Bio 36:505-520, 1984. 5. Jutila, M.A. et al. Ly-6C is a monocyte/macrophage and endothelial cell differentiation antigen regulated by interferon-gamma. J Immunol. 18: 1819-1826, 1988. 6. Haestdal, K., F.W. Ruscetti, J.N. Ihle, S.E.W. Jacobsen, C.M. Dubois, W.C. Kopp, D.L. and J.R. Keller 1991. Characterization and regulation of RB6-8C5 antigen expression on murine bone marrow cell. J.Immunol. 147:227. Fleming, T.J., M.L. Fleming, and T.R. Malek. 1993. Selective Expression of Ly-6G on myeloid lineage cells in bone marrow. RB6-85 mAb to granulocyte-differentiation antigen (Gr-1) detects members of the Ly-6 family. J Immunol. 151:139

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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