

Anti-Mouse Gr-1 Antibody, Clone RB6-8C5

Antibodies

Rat monoclonal IgG2b antibody
against mouse Gr-1 (Ly-6G/Ly-6C),
unconjugated

Catalog #60028

100 µg 0.5 mg/mL



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Product Description

The RB6-8C5 antibody reacts with the structurally related murine Ly-6G (21 - 25 kDa) and Ly-6C (14 - 16 kDa) GPI-anchored proteins, which together comprise the granulocyte receptor-1 antigen (Gr-1). Gr-1 is expressed on monocytes, neutrophils, subsets of macrophages, plasmacytoid dendritic cells, and T cells. Monocytes in the bone marrow transiently express Gr-1 during development and the expression level is strongly correlated with granulocyte differentiation and maturation. In the periphery Gr-1 is found predominantly on neutrophils and is a useful marker for these cells. Whereas the RB6-8C5 binds to both Ly-6G and Ly-6C, another commonly used anti-Gr-1 antibody, clone 1A8, binds specifically to Ly-6G. It has been reported that the 1A8 antibody detects Ly-6G-expressing granulocytes in peripheral blood, whereas the RB6-8C5 antibody also binds to Ly-6C-expressing lymphocytes, monocytes and dendritic cells.

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|----------------------|-------------------------------------|
| Target Antigen Name: | Gr-1 (Ly-6G/Ly-6C) |
| Alternative Names: | Gr 1, Gr1, Ly 6G, Ly6G, Ly-6G/Ly-6C |
| Gene ID: | 17067/546644 |
| Species Reactivity: | Mouse |
| Host Species: | Rat |
| Clonality: | Monoclonal |
| Clone: | RB6-8C5 |
| Isotype: | IgG2b, kappa |
| Immunogen: | Normal mouse bone marrow |
| Conjugate: | Unconjugated |

Applications

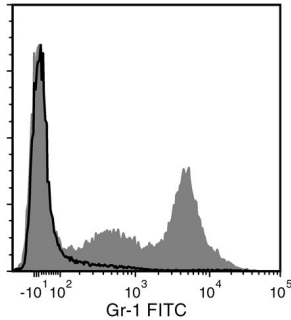
| | |
|-----------------------|---|
| Verified: | CellSep, FC |
| Reported: | FC, IHC, IP, WB |
| Special Applications: | This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse Neutrophil Enrichment Kit (Catalog #19762). |

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

| | |
|------------------------|--|
| Formulation: | Phosphate-buffered saline |
| Purification: | The antibody was purified by affinity chromatography. |
| Stability and Storage: | Product stable at 2 - 8°C when stored undiluted. Do not freeze. Addition of 0.1% sodium azide (final) is recommended once the vial has been opened. For product expiry date, please contact techsupport@stemcell.com . |
| Directions for Use: | For flow cytometry the suggested use of this antibody is ≤ 0.5 µg per 1 × 10 ⁶ cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application. |

Data



Flow cytometry analysis of C57BL/6 mouse bone marrow cells labeled with Anti-Mouse Gr-1 Antibody, Clone RB6-8C5, followed by Goat Anti-Mouse IgG (H+L) Antibody, Polyclonal, FITC (Catalog #60138FI) (filled histogram), or a rat IgG2b, kappa isotype control antibody, followed by Goat Anti-Mouse IgG (H+L) Antibody, Polyclonal, FITC is shown (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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6. Fleming TJ et al. (1993) Selective expression of Ly-6G on myeloid lineage cells in mouse bone marrow. RB6-8C5 mAb to granulocyte-differentiation antigen (Gr-1) detects members of the Ly-6 family. *J Immunol* 151(5): 2399–408. (IP)
7. Stoppacciaro A et al. (1993) Regression of an established tumor genetically modified to release granulocyte colony-stimulating factor requires granulocyte-T cell cooperation and T cell-produced interferon gamma. *J Exp Med* 178(1): 151–61. (Depletion, IHC)
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