

Technical Data Sheet

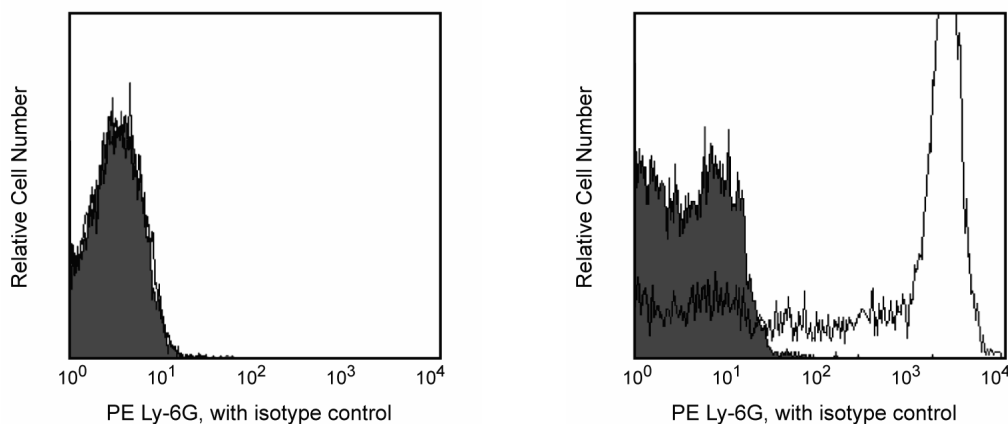
PE Rat Anti-Mouse Ly-6G

Product Information

| | |
|-------------------------|---|
| Material Number: | 551461 |
| Alternate Name: | Ly6g; Lymphocyte antigen 6G; Lymphocyte antigen 6 complex, locus G; Gr1 |
| Size: | 0.2 mg |
| Concentration: | 0.2 mg/ml |
| Clone: | 1A8 |
| Immunogen: | Ly-6G-transfected EL4J cell line |
| Isotype: | Rat (LEW) IgG2a, κ |
| Reactivity: | QC Testing: Mouse |
| Storage Buffer: | Aqueous buffered solution containing protein stabilizer and $\leq 0.09\%$ sodium azide. |

Description

The 1A8 monoclonal antibody specifically binds to Ly-6G, a 21-25-kDa glycosylphosphatidylinositol-anchored protein. In the bone marrow, Ly-6G is expressed on the majority of the largest cells, which are predominantly granulocytes, and not on lymphoid or erythroid cells. In the periphery, it is expressed on granulocytes. The RB6-8C5 monoclonal antibody recognizes both Ly-6G and Ly-6C and blocks the binding of mAb 1A8 to Ly-6G.



Expression of Ly-6G on bone-marrow leukocytes. C57BL/6 bone-marrow cell suspensions were stained with either PE Rat Anti-Mouse Ly-6G (Cat. No. 551461, open histograms) or PE Rat IgG2a, κ Isotype Control (Cat. No. 553930, filled histograms), in the presence of Mouse Fc Block™ purified anti-mouse CD16/CD32 (Cat. No. 553141/553142). Non-viable leukocytes were excluded by staining with Propidium Iodide Staining Solution (Cat. No. 556463), and leukocyte subsets were distinguished by their light-scatter profiles. The left panel displays lymphoid and erythroid cells, and the right panel displays myeloid cells. Flow cytometry was performed on a FACSCalibur™ (BDIS, San Jose, CA).

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry

Routinely Tested

Recommended Assay Procedure:

For flow cytometry of leukocyte suspensions, we recommend the use of Mouse Fc Block™ (purified anti-mouse CD16/CD32 mAb 2.4G2, Cat. No. 553141/553142).

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Suggested Companion Products

| <u>Catalog Number</u> | <u>Name</u> | <u>Size</u> | <u>Clone</u> |
|-----------------------|--|-------------|--------------|
| 553930 | PE Rat IgG2a, κ Isotype Control | 0.1 mg | R35-95 |
| 553141 | Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™) | 0.1 mg | 2.4G2 |
| 553142 | Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™) | 0.5 mg | 2.4G2 |
| 554656 | Stain Buffer (FBS) | 500 mL | (none) |
| 554657 | Stain Buffer (BSA) | 500 mL | (none) |

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
5. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Fleming TJ, Fleming ML, Malek TR. 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.* 1993; 151(5):2399-2408. (Immunogen)

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