

Anti-Mouse Ly-6G (Gr-1) Antibody

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| Catalog Number: | 200701, 200702 |
| Size: | 100 ug, 500 ug |
| Target Name: | Ly-6G, Lymphocyte antigen 6 complex, locus G, Gr-1 |
| Regulatory Status: | RUO |

PRODUCT DETAILS

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| Clone: | 1A8 |
| Application: | Flow Cytometry |
| Reactivity: | Mouse |
| Format: | Purified |
| Isotype: | Rat IgG2a |
| Antibody Type: | Monoclonal |
| Formulation: | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide |
| Protein Concentration: | 0.5 mg/mL |
| Storage&Handling: | The antibody solution should be stored between 2°C and 8°C |
| Recommended Usage: | For flow cytometric staining, it is recommended to use less than 0.2 ug of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application. |
| Isotype Control: | 300201 |

BACKGROUND INFORMATION

Lymphocyte antigen 6 complex, locus G (Ly-6G), also known as Gr-1, is a 21–25 kDa glycosylphosphatidylinositol (GPI)-anchored surface protein. In mice, it is expressed predominantly on peripheral granulocytes, especially neutrophils, and on the majority of myeloid cells in the bone marrow. Ly-6G is transiently detected on developing monocytes but is stably and highly expressed on mature neutrophils. It plays important roles in neutrophil infiltration, recruitment, and migration, and associates with $\beta 2$ integrins CD11a and CD11b to regulate their expression and function. The natural ligand for Ly-6G remains unknown, and it is widely used as a specific marker for murine neutrophils in immunological studies.