

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

|                           |  |
|---------------------------|--|
| <b>Catalog Number:</b>    | 200709, 200710                                     |
| <b>Size:</b>              | 25 tests, 100 tests                                |
| <b>Target Name:</b>       | Ly-6G, Lymphocyte antigen 6 complex, locus G, Gr-1 |
| <b>Regulatory Status:</b> | RUO  |

### PRODUCT DETAILS

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| <b>Clone:</b>                 | 1A8  |
| <b>Application:</b>           | Flow Cytometry   |
| <b>Reactivity:</b>            | Mouse  |
| <b>Format:</b>                | PE   |
| <b>Isotype:</b>               | Rat IgG2a  |
| <b>Antibody Type:</b>         | Monoclonal   |
| <b>Formulation:</b>           | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA  |
| <b>Protein Concentration:</b> | Supplied at a lot-specific concentration.  |
| <b>Storage&amp;Handling:</b>  | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.   |
| <b>Recommended Usage:</b>     | For flow cytometric staining, it is recommended to use 5 µL 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. PE has an excitation max at 565 nm and an emission max at 575 nm. |
| <b>Excitation Laser:</b>      | Blue Laser (488 nm) Green/Yellow laser (532/561nm)   |
| <b>Isotype Control:</b>       | 300205   |

### BACKGROUND INFORMATION

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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.

### PRODUCT DATA

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Mouse bone marrow cells stained with either PE Anti-Mouse Ly-6G clone 1A8 (blue histogram) or an isotype control (gray histogram).

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