**Antibodies**

**Anti-Mouse Ly-6G Antibody, Clone 1A8, PE**

- Rat monoclonal IgG2a antibody against mouse Ly-6G, PE-conjugated

<table>
<thead>
<tr>
<th>Catalog</th>
<th>Amount</th>
<th>Concentration</th>
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</thead>
<tbody>
<tr>
<td>#60031PE</td>
<td>200 μg</td>
<td>0.2 mg/mL</td>
</tr>
<tr>
<td>#60031PE.1</td>
<td>50 μg</td>
<td>0.2 mg/mL</td>
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**Product Description**

The 1A8 antibody reacts with Ly-6G, a 21 - 25 kDa GPI-anchored protein, which together with the structurally related Ly-6C protein comprises the granulocyte receptor-1 antigen (Gr-1). Gr-1 is expressed on monocytes, neutrophils and 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 granocyte differentiation and maturation. In the periphery, Gr-1 is found predominantly on neutrophils and is a useful marker for these cells. The 1A8 antibody binds specifically to Ly-6G, whereas another commonly used antibody, clone RB6-8C5, binds to both Ly-6G and Ly-6C. 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.

**Target Antigen Name:** Ly-6G  
**Alternative Names:** Gr-1, GR1, Ly6G  
**Gene ID:** 546644  
**Species Reactivity:** Mouse  
**Host Species:** Rat (LEW)  
**Clonality:** Monoclonal  
**Clone:** 1A8  
**Isotype:** IgG2a, kappa  
**Immunogen:** Mouse Ly-6G transfected EL-4J cell line  
**Conjugate:** PE

**Applications**

- **Verified:** FC  
- **Reported:** FC  
- **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).

**Properties**

- **Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide  
- **Purification:** The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.  
- **Stability and Storage:** Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.  
- **Directions for Use:** For flow cytometry the suggested use of this antibody is ≤ 0.25 μg per 1 x 10^6 cells in 100 μL volume. It is recommended that the antibody be titrated for optimal performance for each application.

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

Flow cytometry analysis of C57BL/6 mouse bone marrow cells labeled with Anti-Mouse Ly-6G Antibody, Clone 1A8, PE (filled histogram) or a rat IgG2a, kappa PE isotype control antibody (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