**Mouse Ly-6G/Ly-6C (Gr-1) Antibody**

**Monoclonal Rat IgG2B Clone # RB6-8C5**

**Catalog Number: MAB1037**

---

**DESCRIPTION**

**Species Reactivity:** Mouse

**Specificity:** Detects Ly-6G/Ly-6C (Gr-1). Weak cross-reactivity with Ly-6C is observed.

**Source:** Monoclonal Rat IgG2B Clone # RB6-8C5

**Purification:** Protein A or G purified from hybridoma culture supernatant

**Immunogen:** The immunogen for this antibody is Ly-6G (Gr-1, Gr1).

**Formulation:** Lyophilized from a 0.2μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size - SP) is shipped with polar packs. Upon receipt, store it immediately at 20 to 70°C as supplied.

---

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.25μg/10^6 cells</td>
<td>Mouse splenocytes or peripheral blood cells</td>
</tr>
<tr>
<td>8-25μg/mL</td>
<td>See Below</td>
</tr>
<tr>
<td>CyTOF-ready</td>
<td>Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.</td>
</tr>
</tbody>
</table>

---

**DATA**

**Immunocytochemistry**

Ly-6GLy-6C (Gr-1) in Mouse Splenocytes.

Ly-6GLy-6C (Gr-1) was detected in immunofluorescence mouse splenocytes using Mouse Ly-6GLy-6C (Gr-1) Monoclonal Antibody (Catalog # MAB1037) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

**Immunohistochemistry**

Ly-6GLy-6C (Gr-1) in Mouse Spleen.

Ly-6GLy-6C (Gr-1) was detected in perfusion fixed frozen sections of mouse spleen using Rat Anti-Mouse Ly-6GLy-6C (Gr-1) Monoclonal Antibody (Catalog # MAB1037) at 3 μg/mL overnight at 4°C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in splenocytes. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

---

**PREPARATION AND STORAGE**

**Reconstitution:** Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping:** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size - SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70°C

**Stability & Storage:** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70°C as supplied.
- 1 month, 2 to 8°C under sterile conditions after reconstitution.
- 6 months, -20 to -70°C under sterile conditions after reconstitution.

---

**BACKGROUND**

The myeloid differentiation antigen Gr-1 is a member of the Ly-6 family, Ly-6G (1). The RB6-8C5 antibody also reacts weakly with Ly-6C-transfected EL4 cells (2). In the periphery, this antibody specifically recognized granulocytes (3, 4).

**References:**