

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

Catalogue Number : 83122-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** RB6-8C5

**Format/Conjugate:** PE

**Concentration:** 0.2 mg/mL

**Reactivity:** Mouse

**Laser:** Blue (488nm), Yellow/Green (532-561nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

**Brightness (1=dim,5=brightest):** 5

**Isotype:** Rat IgG2b, kappa

**Formulation:** Phosphate-buffered aqueous solution,  $\leq 0.09\%$  Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

### Description

The RB6-8C5 monoclonal antibody reacts with the mouse Ly-6G (also known as Gr-1). The Ly-6G protein is a myeloid differentiation antigen of 21-25 kDa, expressed in a regulated manner by the myeloid lineage in the bone marrow, where the level of antigen expression is correlated with the granulocyte maturation and differentiation. In the bone marrow, the antigen is not expressed by the erythroid cells.

From the peripheral cells, RB6-8C5 binds with monocytes, neutrophils and eosinophils.

As a marker for the mouse monocytes, macrophages and granulocytes, the RB6-8C5 antibody is usually combined with M1/70, a macrophage labeling antibody (Anti-CD11b), for phenotypic analysis.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is  $\leq 0.06$  ug per million cells in 100  $\mu$ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

### References

1. Fleming, T. J., Fleming, M. L., ; Malek, T. R. (1993). 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. *The Journal of Immunology*,;151(5), 2399-2408.
2. Hestdal, K., Ruscetti, F. W., Ihle, J. N., Jacobsen, S. E., Dubois, C. M., Kopp, W. C., ... ; Keller, J. R. (1991). Characterization and regulation of RB6-8C5 antigen expression on murine bone marrow cells.; *The Journal of Immunology*,147(1), 22-28.
3. Huang, B., Zhao, J., Shen, S., Li, H., He, K. L., Shen, G. X., ... ; Feng, Z. H. (2007). *Listeria monocytogenes* promotes tumor growth via tumor cell toll-like receptor 2 signaling.; *Cancer Research*,;67(9), 4346-4352.