

## Anti-Mouse Ly-6G BG Violet 450

Catalog Number :83112-40

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

### Product Information

**Clone:** 1A8

**Format/Conjugate:** BG Violet 450

**Concentration:** 0.2 mg/mL

**Reactivity:** Mouse

**Laser:** Violet (405nm)

**Peak Emission:** 450nm

**Peak Excitation:** 404nm

**Filter:** 450/50

**Brightness (1=dim,5=brightest):** 2

**Isotype:** Rat IgG2a, kappa

**Formulation:** Phosphate-buffered aqueous solution, ≤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 1A8 monoclonal antibody specifically reacts with the 21-25 kDa glycoprophosphatidylinositol-anchored protein known as Ly-6G, expressed by the granulocytes from the bone marrow and periphery neutrophils. Ly-6G and Ly-6C form the Granulocyte Receptor-1 antigen (GR-1).

The binding of the 1A8 antibody to the Ly-6G can be blocked by another antibody, RB6-8C5, which also recognizes Ly-6C. While 1A8 is specific for only Ly-6G, RB6-8C5 also binds to Ly-6C.

BG Violet 450 conjugate is an alternative to the Pacific Blue, eFluor 450, or BD Horizon V450 dyes. It is excited by the violet (405 nm) laser, with a peak emission of 450nm.

### 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 ≤0.25 ug per million cells in 100 µl 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. Daley, J. M., Thomay, A. A., Connolly, M. D., Reichner, J. S., Albina, J. E. (2008). Use of Ly6G-specific monoclonal antibody to deplete neutrophils in mice. *Journal of leukocyte biology*, 83(1), 64-70.
3. Dietlin, T. A., Hofman, F. M., Lund, B. T., Gilmore, W., Stohlman, S. A., van der Veen, R. C. (2007). Mycobacteria-induced Gr-1+ subsets from

