

**TECHNICAL DATA SHEET**

**violetFluor™ 500 Anti-Mouse Ly-6G (1A8)**

Catalog Number: 85-1276

**PRODUCT INFORMATION**

**Contents:** violetFluor™ 500 Anti-Mouse Ly-6G (1A8)

**Isotype:** Rat IgG2a, kappa

**Concentration:** 0.2 mg/mL

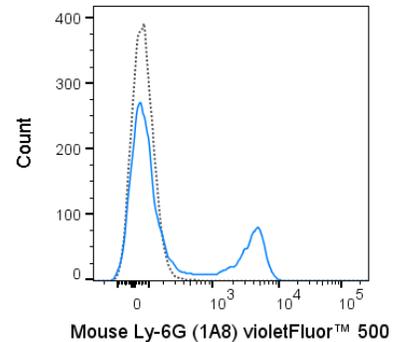
**Clone:** 1A8

**Reactivity:** Mouse

**Use By:** 12 months from date of receipt

**Storage Conditions:** 2-8°C protected from light

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, 0.1% gelatin, pH7.2



C57Bl/6 bone marrow cells were stained with 0.125 ug violetFluor™ 500 Anti-Mouse Ly-6G (85-1276) (solid line) or 0.125 ug violetFluor™ 500 Rat IgG2a isotype control (dashed line).

**DESCRIPTION**

The 1A8 antibody binds to mouse Ly-6G, commonly known as Gr-1, a member of the Ly-6 superfamily of GPI-anchored cell surface proteins with roles in cell signaling and cell adhesion. Gr-1 is differentially expressed during development and maturation of cells in the myeloid lineage and is expression at varying stages and levels on monocytes, macrophages, granulocytes, and peripheral neutrophils. In the mouse, the 1A8 antibody is typically used in combination with the macrophage labeling antibody M1/70 (Anti-CD11b) for phenotypic analysis of monocytes, macrophages and granulocytes. Note: for identification of Ly-C, an alternative antibody, clone RB6-8C5, has been reported to cross-react with Ly-6C on cells expressing this antigen (Fleming et al. 1993. J. Immunol. 151:2399-2408 and Sasmono et al. 2007. J. Leukoc. Biol. 82: 111-123) and has been cited in the literature for identification of Ly-6G/Ly-6C.

**PREPARATION & STORAGE**

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

**APPLICATION NOTES**

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). Please refer to the figure legend for the optimal concentration used to stain the tissue shown. We recommend titrating the antibody under your specific conditions to determine the optimal concentration of antibody needed in your experimental system.

violetFluor™ 500 dye is excited by the violet (405 nm) laser and has a peak emission of 500 nm. The recommended band pass filter for this dye is 525/20. violetFluor™ 500 can be used as an alternative for BD Horizon™ V500 or Pacific Orange®.

**REFERENCES**

Kamaly N, Fredman G, Subramanian M, Gadde S, Pesic A, Cheung L, Fayad ZA, Langer R, Tabas I and Cameron O. 2013. Proc. Natl. Acad. Sci. 110. 6506-6511. (flow cytometry).  
 Stinn W, Buettner A, Weiler H, Friedrichs B, Luetjen S, van Overveld F, Meurrens K, Janssens K, Gebel S, Stabbert R and Haussman H-J. 2013. Toxicol. Sci. 131: 596-611 (flow cytometry).  
 Enoksson M, Moller-Westerberg C, Wicher G, Fallon PG, Forsberg-Nilsson K, Lunderius-Andersson C and Nilsson G. 2013. Blood. 121. 530-536 (flow cytometry).

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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