

TECHNICAL DATA SHEET

In Vivo Ready™ Anti-Mouse Ly-6G (1A8)

Catalog Number: 40-1276

PRODUCT INFORMATION

Contents: In Vivo Ready™ Anti-Mouse Ly-6G

Isotype: Rat IgG2a, kappa

Concentration: 2.0 mg/mL

Clone: 1A8

Reactivity: Mouse

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C

Endotoxin Level: Less than or equal to 0.01 EU/ug, as determined by the LaL assay

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, pH7.2

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 expressed 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

Tonbo Biosciences tests all of our antibodies by flow cytometry. Citations may be provided as a resource for additional applications that have not been validated by Tonbo Biosciences.

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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