

Alexa Fluor® 700 anti-mouse Ly-6G

Catalog # / 1238105 / 25 µg
Size: 1238110 / 100 µg

Clone: 1A8

Isotype: Rat IgG2a, κ

Immunogen: Ly-6G transfected EL-4J cell line.

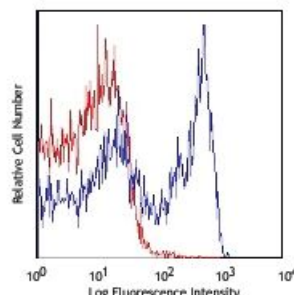
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: 750 under optimal conditions.

Concentration: 0.5



C57BL/6 bone marrow cells stained with 1A8 Alexa Fluor® 700

Applications:

Applications: Flow Cytometry, Immunohistochemistry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is highly recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application Notes: While 1A8 recognizes only Ly-6G, clone RB6-8C5 recognizes both Ly-6G and Ly-6C. Clone RB6-8C5 binds with high affinity to mouse Ly-6G molecules and to a lower extent to Ly-6C¹⁵. Clone RB6-8C5 impairs the binding of anti-mouse Ly-6G clone 1A8¹⁵. However, clone RB6-8C5 is able to stain in the presence of anti-mouse Ly-6C clone HK1.4¹⁶.

Additional reported applications (for the relevant formats) include: immunohistochemistry⁹ of frozen sections¹⁰ and paraffin-embedded sections¹¹, and depletion^{4, 12-14}. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 127620). For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 127632) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

**Application
References:**

1. Fleming TJ, et al. 1993. *J. Immunol.* 151:2399. (FC)
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9. Van Leeuwen, et al. 2008. *Arterioscler. Thromb. Vasc. Biol.* 28:84. (IHC)
10. Kowanetz M, et al. 2010. *P. Natl. Acad. Sci. USA* 107:21248. [supplementary data] (IHC)
11. Esbona K, et al. 2016. *Breast Cancer Res.* 18:35. (IHC)
12. Wojtasiak M, et al. 2010. *J. Gen. Virol.* 91:2158. (FC, Deplete)
13. Jaeger BN, et al. 2012. *J. Exp. Med.* 209:565. (Deplete)
14. Wozniak KL, et al. 2012. *BMC Immunol.* 13:65 (FC, Deplete)
15. Ribechini E, et al. 2009. *Eur. J. Immunol.* 39:3538.
16. Ng LG, et al. 2011. *J Invest. Dermatol.* 131:2058. [PubMed](#)
17. Ma C, et al. 2012. *J. Leukoc. Biol.* 92:1199.
18. McCartney-Francis, N, et al. 2014. *J Leukoc. Biol.* 96:917. [PubMed](#)
19. Her Z, et al. 2014. *EMBO Mol. Med.* 7:24. [PubMed](#)

Description: Lymphocyte antigen 6 complex, locus G (Ly-6G), a 21-25 kD GPI-anchored protein, is expressed on the majority of myeloid cells in bone marrow and peripheral granulocytes.

**Antigen
References:** Fleming TJ, et al. 1993. *J. Immunol.* 151:2399.