

FITC anti-mouse Ly-6G

Catalog # / Size: 1238030 / 500 µg
1238025 / 50 µg

Clone: 1A8

Isotype: Rat IgG2a, κ

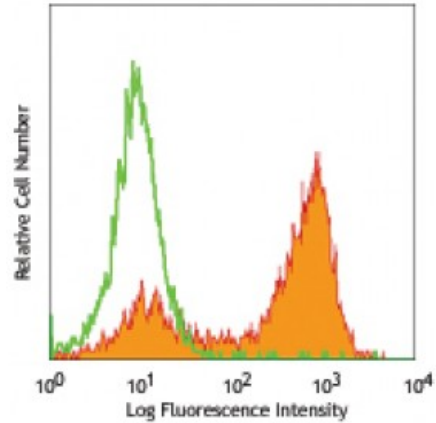
Immunogen: Ly-6G transfected EL-4J cell line.

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

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

Concentration: 0.5



BALB/c mouse bone marrow cells stained with 1A8 FITC (gated on myeloid cells)

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 microg per 10⁶ cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for other applications.

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)
 2. Daley JM, *et al.* 2008. *J. Leukocyte Biol.* 83:1. (FC)
 3. Dietlin TA, *et al.* 2007. *J. Leukocyte Biol.* 81:1205. (FC)
 4. Daley J, *et al.* 2007. *J. Leukocyte Biol.* doi:10.1189. (Deplete) [PubMed](#)
 5. Tadagavadi RK, *et al.* 2010. *J. Immunol.* 185:4904. [PubMed](#)
 6. Sumagin R, *et al.* 2010. *J. Immunol.* 185:7057. [PubMed](#)
 7. Guiducci C, *et al.* 2010. *J. Exp Med.* 207:2931. [PubMed](#)
 8. Fujita M, *et al.* 2011. *Cancer Res.* 71:2664. [PubMed](#)
 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 Fleming TJ, *et al.* 1993. *J. Immunol.* 151:2399.
References: