

Alexa Fluor® 488 anti-mouse Ly-6G

Catalog # / Size: 1238125 / 25 µg
1238130 / 100 µg

Clone: 1A8

Isotype: Rat IgG2a, κ

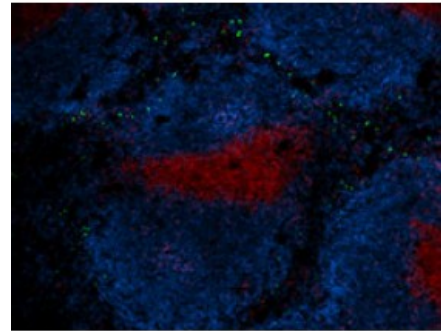
Immunogen: Ly-6G transfected EL-4J cell line.

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.

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

Concentration: 0.5



C57BL/6 mouse frozen spleen section was fixed with 4% paraformaldehyde (PFA) for ten minutes at room temperature and blocked with 5% FBS plus 5% rat/mouse serum for one hour at room temperature. Then the section was stained with 2.5 microg/ml of Ly-6G (

Applications:

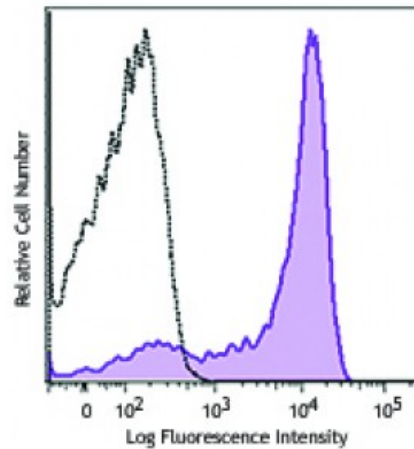
Applications: Immunofluorescence

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 ≤0.5 microg per million cells in 100 microL volume. For immunofluorescence microscopy, a concentration range of 2.5-10 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

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



C57BL/6 mouse bone marrow cells were stained with Ly-6G (clone 1A8) Alexa Fluor® 488 (filled histogram) or rat IgG2a, κ Alexa Fluor® 488 isotype control (open histogram). Data shown was gated on the myeloid cell population.

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:
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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.