SONY

Product Data Sheet

Spark YG™ 593 anti-mouse Ly-6G

Catalog # / Size: 1238335 / 25 µg
1238340 / 100 µg

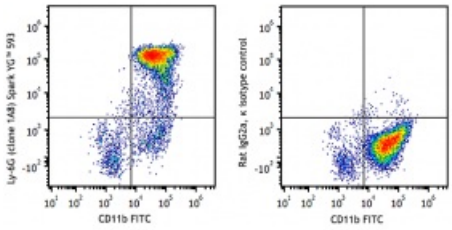
Clone: 1A8

Isotype: Rat IgG2a, κ

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

Reactivity: Mouse

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



C57BL/6 mouse bone marrow cells were stained with anti-mouse CD11b FITC and anti-mouse Ly-6G (clone 1A8) Spark YG™ 593 (left) or rat IgG2a, κ Spark YG™ 593 isotype control (right). Data shown were gated on the myeloid population.

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 ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Spark YG™ 593 has a maximum excitation of 573 nm and a maximum emission of 593 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-6C[15]. Clone RB6-8C5 impairs the binding of anti-mouse Ly-6G clone 1A8[15]. However, clone RB6-8C5 is able to stain in the presence of anti-mouse Ly-6C clone HK1.4[16].

Additional reported applications (for the relevant formats) include: immunohistochemistry[9] of frozen sections[10] and paraffin-embedded sections[11], and depletion[4, 12-14]. The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for *in vivo* studies or highly sensitive assays (Cat. No. 127632, 127649, 127650, 127661 and 127662).

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Application References:

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6. Sumagin R, *et al.* 2010. *J. Immunol.* 185:7057. PubMed
7. Guiducci C, *et al.* 2010. *J. Exp Med.* 207:2931. PubMed
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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)
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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.

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