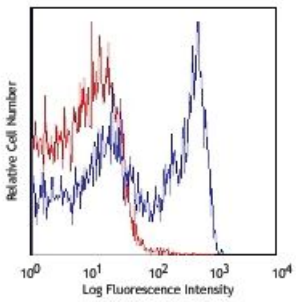
SONY

Product Data Sheet

Alexa Fluor® 700 anti-mouse Ly-6G

Catalog # / Size:	1238105 / 25 µg 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.
Concentration:	0.5



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

Applications:

Applications:	Flow Cytometry
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 microg per million cells in 100 microL 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-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 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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8. Fujita M, *et al.* 2011. *Cancer Res.* 71:2664. PubMed
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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
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18. McCartney-Francis, N, *et al.* 2014. *J Leukoc. Biol.* 96:917. PubMed
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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.