

FITC anti-mouse Ly-6G Antibody

Catalog# / Size	127605 / 50 µg 127606 / 500 µg
Clone	1A8
Regulatory Status	RUO
Other Names	Lymphocyte antigen 6 complex, locus G
Isotype	Rat IgG2a, κ
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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Ly-6G transfected EL-4J cell line.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 µg per 10 ⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for other applications.
Excitation Laser	Blue Laser (488 nm)
Application Notes	<p>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.</p> <p>Additional reported applications (for the relevant formats) include: immunohistochemistry⁹ of frozen sections¹⁰ and paraffin-embedded sections¹¹, depletion^{4, 12-14}, and spatial biology (IBEX)^{20,21}. The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for <i>in vivo</i> studies or highly sensitive assays (Cat. No. 127632, 127649, 127650, 127661 and 127662).</p>
Application References	<ol style="list-style-type: none"> Fleming TJ, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:2399. (FC) Daley JM, <i>et al.</i> 2008. <i>J. Leukocyte Biol.</i> 83:1. (FC) Dietlin TA, <i>et al.</i> 2007. <i>J. Leukocyte Biol.</i> 81:1205. (FC) Daley J, <i>et al.</i> 2007. <i>J. Leukocyte Biol.</i> doi:10.1189. (Deplete) PubMed Tadagavadi RK, <i>et al.</i> 2010. <i>J. Immunol.</i> 185:4904. PubMed Sumagin R, <i>et al.</i> 2010. <i>J. Immunol.</i> 185:7057. PubMed Guiducci C, <i>et al.</i> 2010. <i>J. Exp Med.</i> 207:2931. PubMed Fujita M, <i>et al.</i> 2011. <i>Cancer Res.</i> 71:2664. PubMed Van Leeuwen, <i>et al.</i> 2008. <i>Arterioscler. Thromb. Vasc. Biol.</i> 28:84. (IHC) Kowanetz M, <i>et al.</i> 2010. <i>P. Natl. Acad. Sci. USA</i> 107:21248. [supplementary data] (IHC) Esbona K, <i>et al.</i> 2016. <i>Breast Cancer Res.</i> 18:35. (IHC)
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RRID AB_1236488 (BioLegend Cat. No. 127605)
 AB_1236494 (BioLegend Cat. No. 127606)

Antigen Details

Structure	A 21-35 kD GPI-anchored membrane protein
Distribution	Expressed on the majority of myeloid cells in bone marrow and peripheral granulocytes. The monoclonal antibody RB6-8C5 recognizes both Ly-6G and Ly-6C.
Cell Type	Granulocytes, Macrophages, Monocytes
Biology Area	Immunology, Innate Immunity
Antigen References	Fleming TJ, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:2399.
Gene ID	546644

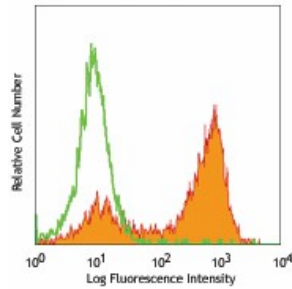
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Alexa Fluor® 594 anti-mouse Ly-6G, Purified anti-mouse Ly-6G, Biotin anti-mouse Ly-6G, FITC anti-mouse Ly-6G, PE anti-mouse Ly-6G, Alexa Fluor® 647 anti-mouse Ly-6G, Pacific Blue™ anti-mouse Ly-6G, APC anti-mouse Ly-6G, PerCP/Cyanine5.5 anti-mouse Ly-6G, PE/Cyanine7 anti-mouse Ly-6G, Alexa Fluor® 700 anti-mouse Ly-6G, APC/Cyanine7 anti-mouse Ly-6G, Alexa Fluor® 488 anti-mouse Ly-6G, Brilliant Violet 421™ anti-mouse Ly-6G, Brilliant Violet 570™ anti-mouse Ly-6G, Ultra-LEAF™ Purified anti-mouse Ly-6G, Brilliant Violet 510™ anti-mouse Ly-6G, Purified anti-mouse Ly-6G (Maxpar® Ready), Brilliant Violet 650™ anti-mouse Ly-6G, Brilliant Violet 711™ anti-mouse Ly-6G, Brilliant Violet 605™ anti-mouse Ly-6G, Brilliant Violet 785™ anti-mouse Ly-6G, PE/Dazzle™ 594 anti-mouse Ly-6G, APC/Fire™ 750 anti-mouse Ly-6G, PerCP anti-mouse Ly-6G, TotalSeq™-A0015 anti-mouse Ly-6G, TotalSeq™-C0015 anti-mouse Ly-6G, TotalSeq™-B0015 anti-mouse Ly-6G, Spark Blue™ 550 anti-mouse Ly-6G, Spark NIR™ 685 anti-mouse Ly-6G, Spark YG™ 593 anti-mouse Ly-6G, PE/Cyanine5 anti-mouse Ly-6G, PE/Fire™ 810 anti-mouse Ly-6G Antibody, Spark UV™ 387 anti-mouse Ly-6G, PE/Fire™ 640 anti-mouse Ly-6G

Product Data



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

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