

Purified anti-mouse Ly-6G Antibody

Catalog# / Size	127601 / 50 µg 127602 / 500 µg
Clone	1A8
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

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.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - <i>Quality tested</i> IHC-F - <i>Validated</i> IHC - <i>Reported in the literature</i>
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 each application.
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 <i>in vivo</i> 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/µg).
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)
(PubMed link indicates BioLegend citation)	
Product Citations	1. Guiducci C, et al. 2010. J Exp Med. 207:2931. PubMed 2. Sumagin R, et al. 2010. J Immunol. 185:7057. PubMed 3. Reeves R 2010. J Immunol. 185:4904. PubMed 4. Fujita M, et al. 2011. Cancer Res. 71:2664. PubMed 5. Cain D, et al. 2011. PLoS One. 6:e19957. PubMed 6. Raccosta L, et al. 2013. J Exp Med. 210:1711. PubMed

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9. McCartney-Francis N, et al. 2014. J Leukoc Biol. 96:917. PubMed
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RRID AB_1089179 (BioLegend Cat. No. 127601)
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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, et al. 1993. J. Immunol. 151:2399.
Gene ID	546644

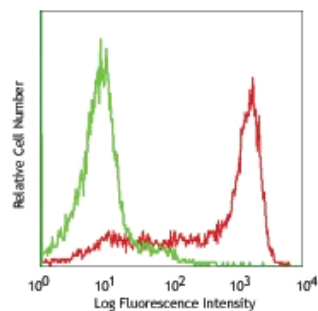
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

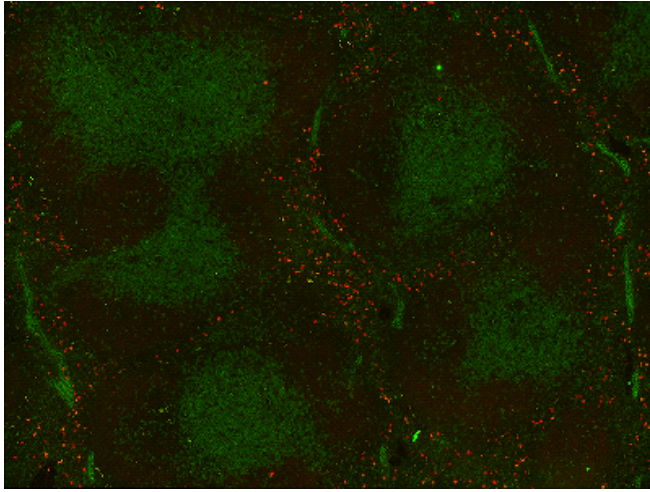
Other Formats

Alexa Fluor® 594 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, LEAF™ Purified 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

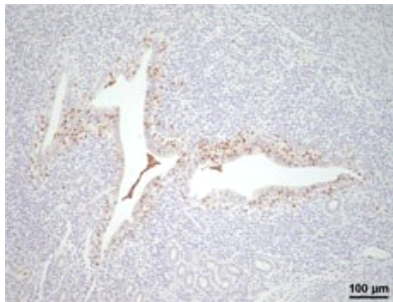
Product Data



C57BL/6 bone marrow cells stained with 1A8 purified, followed by anti-rat IgG PE (myeloid cells were gated for analysis)



Fresh, frozen mouse spleen was stained with purified Ly6G clone 1A8 conjugated and detected with a Cy5 CODEX™ oligonucleotide duplex (red). Samples were counterstained with TCR FITC (green). Data generated at Akoya Biosciences, Inc. using the CODEX™ technology.



Mouse uterine tissue fixed in 10% formalin, paraffin embedded, and sliced to 4 μm. After deparaffination and antigen retrieval, sample was stained using an automatic slide stainer. The anti-mouse Ly6G primary antibody was applied at 1:500 dilution in blocking buffer for 1 hr at RT and DAB was used for visualization.

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