Ultra-LEAF™ Purified anti-mouse Ly-6G Antibody

Catalog# / Size	127632 / 1 mg 127680 / 100 µg 127649 / 5 mg 127650 / 25 mg 127661 / 50 mg 127662 / 100 mg
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	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.01 EU/µg of the protein (<0.001 ng/µg of the protein) as determined by the LAL test.
Preparation	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Concentration	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. Older lots may have also been bottled at 1 mg/mL. To obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
Application	FC - Quality tested Depletion, IHC - Reported in the literature, not verified in house
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 million cells in 100 µl volume or 100 µl of whole blood. 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], 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 *in vivo* studies or highly sensitive assays (Cat. No. 127632, 127649, 127650, 127661 and 127662).
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

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Product Citations

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RRID

AB_11150581 (BioLegend Cat. No. 127632)
AB_11150581 (BioLegend Cat. No. 127680)
AB_2572001 (BioLegend Cat. No. 127649)
AB_2572002 (BioLegend Cat. No. 127650)
AB_2860668 (BioLegend Cat. No. 127661)
AB_2860669 (BioLegend Cat. No. 127662)

Antigen Details

Structure	A 21-35 kD GPI-anchorded 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

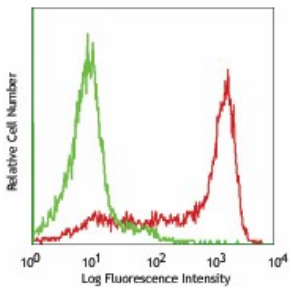
Cell Surface Flow Cytometry Staining Protocol

Other Formats

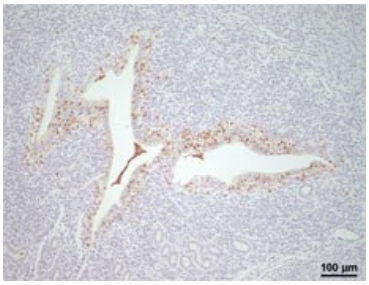
Alexa Fluor® 594 anti-mouse Ly-6G, Purified anti-mouse Ly-6G, Biotin anti-mouse Ly-6G, FITC anti-mouse Ly-6G, PE anti-mouse

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, APC/Fire™ 810 anti-mouse Ly-6G Antibody, 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



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



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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