

Pacific Blue™ anti-mouse Ly-6G Antibody

Catalog# / Size	127611 / 25 µg 127612 / 100 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 Pacific Blue™ 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	<p>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 10⁶ 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.</p> <p>* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Violet Laser (405 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

(PubMed link indicates BioLegend citation)

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RRID AB_1877212 (BioLegend Cat. No. 127611)
AB_2251161 (BioLegend Cat. No. 127612)

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

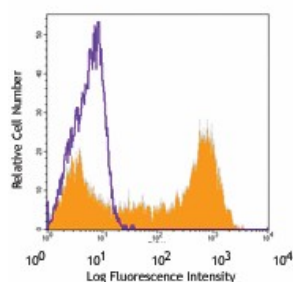
Related Protocols

[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, APC/Fire™ 810 anti-mouse Ly-6G, PE/Cyanine5 anti-mouse Ly-6G, PE/Fire™ 810 anti-mouse Ly-6G, Spark UV™ 387 anti-mouse Ly-6G, PE/Fire™ 640 anti-mouse Ly-6G

Product Data



C57BL/6 bone marrow cells stained with
1A8 Pacific Blue™

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