

Spark NIR™ 685 anti-mouse Ly-6G Antibody

Catalog# / Size	127665 / 25 µg 127666 / 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 Spark NIR™ 685 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 million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark NIR™ 685 has a maximum excitation of 665 nm and a maximum emission of 685 nm.
Excitation Laser	Red Laser (633 nm)
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 <i>in vivo</i> studies or highly sensitive assays (Cat. No. 127632, 127649, 127650, 127661 and 127662).

Application References

(PubMed link indicates BioLegend citation)

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11. Esbona K, *et al.* 2016. *Breast Cancer Res.* 18:35. (IHC)
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20. Radtke AJ, *et al.* 2020. *Proc Natl Acad Sci U S A.* 117:33455-65. (SB) [PubMed](#)
21. Radtke AJ, *et al.* 2022. *Nat Protoc.* 17:378-401. (SB) [PubMed](#)

RRID AB_2876454 (BioLegend Cat. No. 127665)
 AB_2876454 (BioLegend Cat. No. 127666)

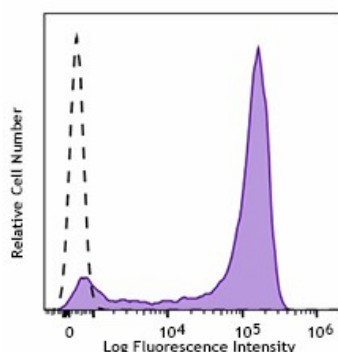
Antigen Details

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

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



C57BL/6 mouse bone marrow cells were stained with Ly-6G (clone 1A8) Spark NIR™ 685 (filled histogram) or cells were left unstained (open histogram). Data shown was gated on the myeloid cell population.

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