

PE/Dazzle™ 594 anti-mouse Ly-6G Antibody

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|--------------------------|---|
| Catalog# / Size | 127647 / 25 µg 127648 / 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

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| 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 PE/Dazzle™ 594 under optimal conditions. |
| Concentration | 0.2 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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm. |
| Excitation Laser | Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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

- Fleming TJ, *et al.* 1993. *J. Immunol.* 151:2399. (FC)
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- Daley J, *et al.* 2007. *J. Leukocyte Biol.* doi:10.1189. (Deplete) [PubMed](#)
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Product Citations

1. Silva HM, *et al.* 2019. *J Exp Med.* 216:786. [PubMed](#)
2. Trittel S, *et al.* 2019. *Sci Rep.* 9:16362. [PubMed](#)
3. Sakai M, *et al.* 2020. *Immunity.* 51(4):655-670. [PubMed](#)
4. Kienzl M, *et al.* 2020. *Oncoimmunology.* 9:1776059. [PubMed](#)
5. Ang QY, *et al.* 2020. *Cell.* 181(6):1263-1275.e16. [PubMed](#)

RRID

AB_2566318 (BioLegend Cat. No. 127647)
 AB_2566319 (BioLegend Cat. No. 127648)

Antigen Details

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|---------------------------|---|
| 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 |

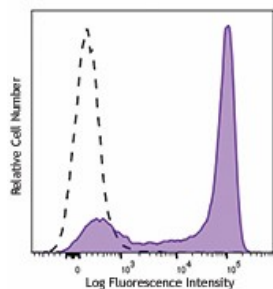
Related Protocols

[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



C57BL/6 mouse bone marrow cells were stained with Ly-6G (clone 1A8) PE/Dazzle™ 594 (filled histogram) or rat IgG2a, κ PE/Dazzle™ 594 isotype control (open histogram). Data shown was gated on myeloid cell population.

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