

## Alexa Fluor® 594 anti-mouse Ly-6G Antibody

<b>Catalog# / Size</b>	127636 / 100 µg
<b>Clone</b>	1A8
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Lymphocyte antigen 6 complex, locus G
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	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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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Ly-6G transfected EL-4J cell line.
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 594 under optimal conditions.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">IHC-F - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by immunohistochemical staining on frozen tissue sections. For immunohistochemistry, a concentration range of 2.0 - 5.0 µg/mL is suggested. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor® 594 has an excitation maximum of 590 nm, and a maximum emission of 617 nm.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p><a href="#">View full statement regarding label licenses</a></p>
<b>Excitation Laser</b>	Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	<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-6C<sup>15</sup>. Clone RB6-8C5 impairs the binding of anti-mouse Ly-6G clone 1A8<sup>15</sup>. However, clone RB6-8C5 is able to stain in the presence of anti-mouse Ly-6C clone HK1.4<sup>16</sup>.</p> <p>Additional reported applications (for the relevant formats) include: immunohistochemistry<sup>9</sup> of frozen sections<sup>10</sup> and paraffin-embedded sections<sup>11</sup>, depletion<sup>4, 12-14</sup>, and spatial biology (IBEX)<sup>20,21</sup>. The Ultra-LEAF™ purified antibody (Endotoxin &lt; 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>
<b>Additional Product Notes</b>	View more applications data for this product in our <a href="#">Scientific Poster Library</a> .
<b>Application References</b>	<ol style="list-style-type: none"> <li>1. Fleming TJ, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:2399. (FC)</li> <li>2. Daley JM, <i>et al.</i> 2008. <i>J. Leukocyte Biol.</i> 83:1. (FC)</li> <li>3. Dietlin TA, <i>et al.</i> 2007. <i>J. Leukocyte Biol.</i> 81:1205. (FC)</li> <li>4. Daley J, <i>et al.</i> 2007. <i>J. Leukocyte Biol.</i> doi:10.1189. (Deplete) <a href="#">PubMed</a></li> <li>5. Tadagavadi RK, <i>et al.</i> 2010. <i>J. Immunol.</i> 185:4904. <a href="#">PubMed</a></li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	

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#### Product Citations

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2. Qi JL, *et al.* 2020. *MedComm (Beijing).* 1:188. [PubMed](#)
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#### RRID

AB\_2563207 (BioLegend Cat. No. 127636)

### Antigen Details

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<b>Structure</b>	A 21-35 kD GPI-anchored membrane protein
<b>Distribution</b>	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.
<b>Cell Type</b>	Granulocytes, Macrophages, Monocytes
<b>Biology Area</b>	Immunology, Innate Immunity
<b>Antigen References</b>	Fleming TJ, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:2399.
<b>Gene ID</b>	<a href="#">546644</a>

### Related Protocols

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[Immunohistochemistry Protocol for Frozen Sections](#)

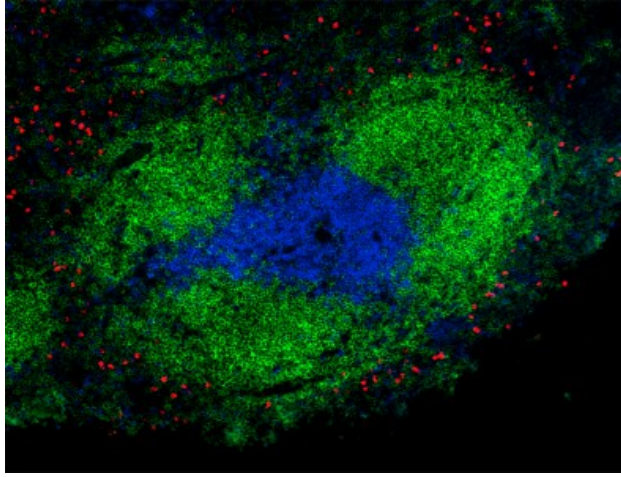
### Other Formats

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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

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C57BL/6 mouse frozen spleen section was fixed with 4% paraformaldehyde (PFA) for 10 minutes at room temperature and blocked with 5% FBS plus 5% rat serum for 1 hour at room temperature. Then the section was stained with 2.5 µg/ml of Ly-6G (clone 1A8) Alexa Fluor® 594 (red), 2.5 µg/ml of CD3 (clone 145-2C11) Alexa Fluor® 647 (blue), and 2.5 µg/ml of B220 (clone RA3-6B2) Alexa Fluor® 488 (green) overnight at 4°C. The image was captured by 10X objective.

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