

## Purified anti-mouse Ly-6G (Maxpar<sup>®</sup> Ready) Antibody

<b>Catalog# / Size</b>	127637 / 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

<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 and EDTA.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	1.0 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">FC - Quality tested</a> <a href="#">CyTOF<sup>®</sup>, WB - Verified</a>
<b>Recommended Usage</b>	This product is suitable for use with the <a href="#">Maxpar<sup>®</sup> Metal Labeling Kits</a> . For metal labeling using Maxpar <sup>®</sup> Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar <sup>®</sup> Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar <sup>®</sup> User Guide when conjugating Maxpar <sup>®</sup> Ready antibodies.
<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>	Maxpar <sup>®</sup> is a registered trademark of Standard BioTools Inc.
<b>Application References</b>	<ol style="list-style-type: none"> <li>Fleming TJ, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:2399. (FC)</li> <li>Daley JM, <i>et al.</i> 2008. <i>J. Leukocyte Biol.</i> 83:1. (FC)</li> <li>Dietlin TA, <i>et al.</i> 2007. <i>J. Leukocyte Biol.</i> 81:1205. (FC)</li> <li>Daley J, <i>et al.</i> 2007. <i>J. Leukocyte Biol.</i> doi:10.1189. (Deplete) <a href="#">PubMed</a></li> <li>Tadagavadi RK, <i>et al.</i> 2010. <i>J. Immunol.</i> 185:4904. <a href="#">PubMed</a></li> <li>Sumagin R, <i>et al.</i> 2010. <i>J. Immunol.</i> 185:7057. <a href="#">PubMed</a></li> <li>Guiducci C, <i>et al.</i> 2010. <i>J. Exp Med.</i> 207:2931. <a href="#">PubMed</a></li> <li>Fujita M, <i>et al.</i> 2011. <i>Cancer Res.</i> 71:2664. <a href="#">PubMed</a></li> <li>Van Leeuwen, <i>et al.</i> 2008. <i>Arterioscler. Thromb. Vasc. Biol.</i> 28:84. (IHC)</li> <li>Kowanetz M, <i>et al.</i> 2010. <i>P. Natl. Acad. Sci. USA</i> 107:21248. [supplementary data] (IHC)</li> <li>Esbona K, <i>et al.</i> 2016. <i>Breast Cancer Res.</i> 18:35. (IHC)</li> <li>Wojtasiak M, <i>et al.</i> 2010. <i>J. Gen. Virol.</i> 91:2158. (FC, Deplete)</li> </ol>

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#### Product Citations

1. Zhu YP *et al.* 2018. *Cell reports.* 24(9):2329-2341 . [PubMed](#)
2. Mariani SA, *et al.* 2019. *Immunity.* 50:1439. [PubMed](#)
3. Jordan S, *et al.* 2020. *Cell.* 178(5):1102-1114.e17.. [PubMed](#)
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#### RRID

AB\_2563784 (BioLegend Cat. No. 127637)

## Antigen Details

<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

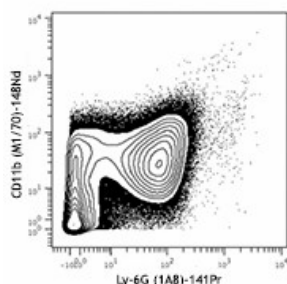
[Cell Surface Flow Cytometry Staining Protocol](#)

[Western Blotting Protocol](#)

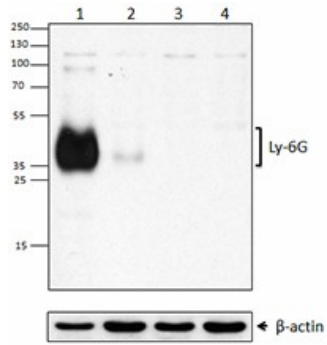
## Other Formats

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 stained with 148Nd-anti-CD11b (M1/70) and 141Pr-anti-Ly-6G (1A8). Data provided by DVS Sciences.



Western blot analysis of mouse bone marrow (lane 1), mouse spleen (lane 2), mouse thymus (lane 3), and THP-1 (lane 4) using anti-mouse Ly-6G (clone 1A8) antibody followed by HRP goat anti-rat IgG (minimal x-reactivity) secondary antibody. Purified anti-β-actin (clone Poly6221) antibody was used as loading control.

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