

Ly-6G/Ly-6C Monoclonal Antibody (RB6-8C5), Super Bright 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RB6-8C5
Conjugate	Super Bright 436
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2735069

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	6 Publications

Product Specific Information

Description: The RB6-8C5 monoclonal antibody reacts with mouse Ly-6G, a 21-25 kDa protein also known as the myeloid differentiation antigen Gr-1. A GPI-linked protein, Gr-1 is expressed by the myeloid lineage in a developmentally regulated manner in the bone marrow. While monocytes only express Gr-1 transiently during their bone marrow development, the expression of Gr-1 on bone marrow granulocytes as well as on peripheral neutrophils is a good marker for these populations.

eBioscience testing indicates that in the bone marrow and lysed whole blood, the antibody clone RB6-8C5 also stains cells that express the highest levels of Ly6c (as defined by staining with antibody clone HK1.4). It is recommended that 1A8-Ly6G (cat. 9668) be used when looking at Ly-6G specific targets.

Applications Reported: This RB6-8C5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This RB6-8C5 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass

filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

7 References

Immunohistochemistry (1)

<p>Cell communication and signaling : CCS</p> <p>Hepatocyte-specific S100a8 and S100a9 transgene expression in mice causes Cxcl1 induction and systemic neutrophil enrichment.</p> <p>"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 62-5931-82) in Immunohistochemistry"</p> <p>Authors: Wiechert L,Németh J,Pusterla T,Bauer C,De Ponti A,Manthey S,Marhenke S,Vogel A,Klingmüller U,Hess J,Angel P</p>	<p>Species Not Applicable</p> <p>Dilution Not Cited</p> <p>Year 2012</p>
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Flow Cytometry (6)

<p>Frontiers in immunology</p> <p>Bacterial and Fungal Toll-Like Receptor Activation Elicits Type I IFN Responses in Mast Cells.</p> <p>"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 62-5931-82) in Flow Cytometry"</p> <p>Authors: Kornstädt L,Pierre S,Weigert A,Ebersberger S,Schäufele TJ,Kolbinger A,Schmid T,Cohnen J,Thomas D,Ferreirós N,Brüne B,Ebersberger I,Scholich K</p>	<p>Species Not Applicable</p> <p>Dilution Not Cited</p> <p>Year 2021</p>
<p>BioMed research international</p> <p>Effects of Hypertonic Saline and Hydroxyethyl Starch on Myeloid-Derived Suppressor Cells in Hemorrhagic Shock Mice under Secondary Bacterial Attack.</p> <p>"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 62-5931-82) in Flow Cytometry"</p> <p>Authors: Jiang JK,Hong LJ,Lu YQ</p>	<p>Species Not Applicable</p> <p>Dilution Not Cited</p> <p>Year 2020</p>

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