

Ly-6G/Ly-6C Monoclonal Antibody (RB6-8C5), Super Bright™ 645, 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™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RB6-8C5
Conjugate	Super Bright™ 645
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_2662805

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	0.125 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 0.06 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 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 bandpass filter. 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.

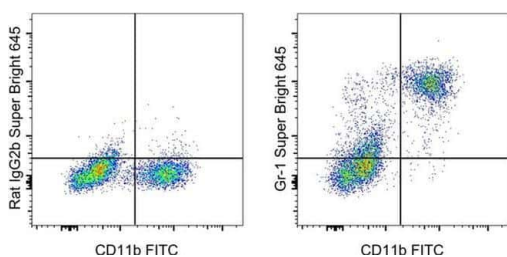
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 645 nm; Laser: Violet Laser

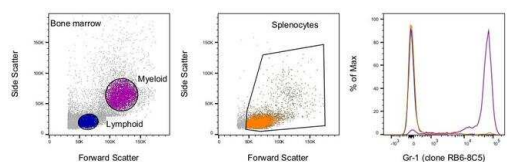
Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For Ly-6G/Ly-6C Monoclonal Antibody (RB6-8C5), Super Bright™ 645, eBioscience™



Ly-6G/Ly-6C Antibody (64-5931-82) in Flow

Staining of C57BL/6 bone marrow cells with Anti-Mouse CD11b FITC (Product # 11-0112-41) and Rat IgG2a K Isotype Control (Product # 64-4321-82) (left) or 0.06 μ g of Anti-Mouse Ly-6G (Gr-1) Super Bright 645 (right). Total cells were used for analysis.



Ly-6G/Ly-6C Antibody (64-5931-82)

Staining of mouse splenocytes and bone marrow cells. As expected based on known relative expression patterns, Gr-1 clone RB6-8C5 stains cells in the bone marrow myeloid gate and not in the splenocytes gate or bone marrow lymphoid gate. Details: Balb/c bone marrow cells (left) and splenocytes (middle) were surface stained with Gr-1 (clone RB6-8C5) followed by staining with 7-AAD. Viable bone marrow cells in the lymphoid (blue histogram) and myeloid (purple histogram) gates and viable splenocytes (orange histogram) were used for analysis. {RE}

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Immunohistochemistry (2)

JCI insight

Renal proximal tubular NEMO plays a critical role in ischemic acute kidney injury.

"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 64-5931-82) in Immunohistochemistry"

Authors: Han SJ, Williams RM, Kim M, Heller DA, D'Agati V, Schmidt-Supprian M, Lee HT

Year
2020

Cell communication and signaling : CCS

Hepatocyte-specific S100a8 and S100a9 transgene expression in mice causes Cxcl1 induction and systemic neutrophil enrichment.

"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 64-5931-82) in Immunohistochemistry"

Authors: Wiechert L, Németh J, Pusterla T, Bauer C, De Ponti A, Manthey S, Marhenke S, Vogel A, Klingmüller U, Hess J, Angel P

Year
2012

Flow Cytometry (6)

Frontiers in immunology

Bacterial and Fungal Toll-Like Receptor Activation Elicits Type I IFN Responses in Mast Cells.

"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 64-5931-82) in Flow Cytometry"

Authors: Kornstädt L, Pierre S, Weigert A, Ebersberger S, Schäufele T, Kolbinger A, Schmid T, Cohnen J, Thomas D, Ferreirós N, Brüne B, Ebersberger I, Scholich K

Year
2021

BioMed research international

Effects of Hypertonic Saline and Hydroxyethyl Starch on Myeloid-Derived Suppressor Cells in Hemorrhagic Shock Mice under Secondary Bacterial Attack.

"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 64-5931-82) in Flow Cytometry"

Authors: Jiang JK, Hong LJ, Lu YQ

Year
2020

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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