

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)	-	1 Publication
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.

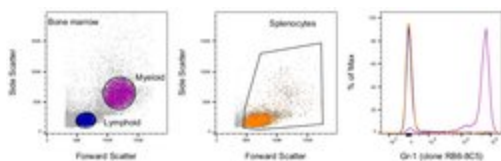
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

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.

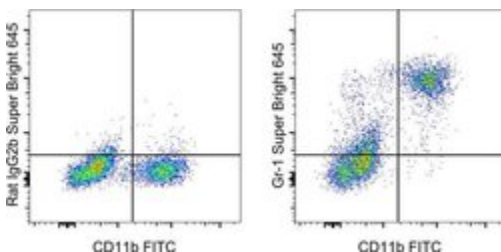
Advanced Verification Data



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. Relative expression validation info.

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.

View more figures on thermofisher.com

7 References

Immunohistochemistry (1)

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

Species
Not Applicable

Dilution
Not Cited

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

Species
Not Applicable

Dilution
Not Cited

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

Species
Not Applicable

Dilution
Not Cited

Year
2020

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More applications with references on thermofisher.com

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