Ly-6G/Ly-6C Monoclonal Antibody (RB6-8C5), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Dog, Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RB6-8C5
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469663

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	125 Publications
Functional Assay (FN)	-	2 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 and splenocytes. This can be used at less than or equal to 0.125 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 10^5 to 10^8 cells

/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

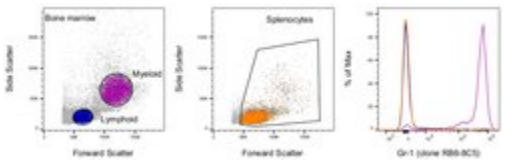
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL 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: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

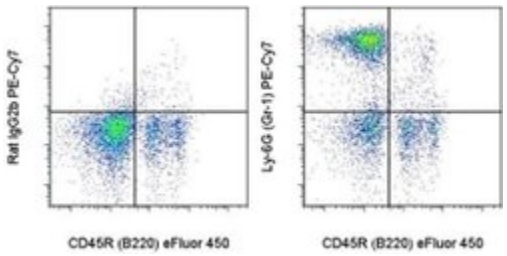
Filtration: 0.2 µm post-manufacturing filtered.

Advanced Verification Data



Ly-6G/Ly-6C Antibody (25-5931-82)
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), PE-Cyanine7, eBioscience™



Ly-6G/Ly-6C Antibody (25-5931-82) in Flow
Staining of C57BL/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) eFluor® 450 (Product # 48-0452-82) and 0.125 µg of Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (left) or 0.125 µg of Anti-Mouse Ly-6G (Gr-1) PE-Cyanine7 (right). Total viable cells were used for analysis.

View more figures on thermofisher.com

128 References

Immunohistochemistry (1)

BMC genomics

Influenza H3N2 infection of the collaborative cross founder strains reveals highly divergent host responses and identifies a unique phenotype in CAST/EiJ mice.

Authors: Leist SR,Pilzner C,van den Brand JM,Dengler L,Geffers R,Kuiken T,Balling R,Kollmus H,Schughart K

Species
Mouse

Dilution
Not Cited

Year
2016

Flow Cytometry (125)

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 # 25-5931-82) in Flow Cytometry"

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

Species
Not Applicable

Dilution
Not Cited

Year
2021

Nature communications

BRD4-mediated repression of p53 is a target for combination therapy in AML.

"25-5931 was used in Flow cytometry/Cell sorting to report enhanced toxicity of combined MDM2i and BETi towards AML cell lines, primary human blasts and mouse models, resulting from BETi's ability to evict an unexpected repressive form of BRD4 from p53 target genes, and hence potentiate MDM2i-induced p53 activation."

Authors: Latif AL,Newcombe A,Li S,Gilroy K,Robertson NA,Lei X,Stewart HJS,Cole J,Terradas MT,Rishi L,McGarry L, McKeeve C,Reid C,Clark W,Campos J,Kirschner K,Davis A,Lopez J,Sakamaki JI,Morton JP,Ryan KM,Tait SWG, Abraham SA,Holyoake T,Higgins B,Huang X,Blyth K,Copland M,Chevassut TJT,Keeshan K,Adams PD

Species
Mouse

Dilution
1:250

Year
2021

View more Flow references on thermofisher.com

Functional Assay (2)

Cancer research

Listeria monocytogenes promotes tumor growth via tumor cell toll-like receptor 2 signaling.

Authors: Huang B,Zhao J,Shen S,Li H,He KL,Shen GX,Mayer L,Unkeless J,Li D,Yuan Y,Zhang GM,Xiong H,Feng ZH

Species
Not Applicable

Dilution
Not Cited

Year
2007

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