

# Ly-6G/Ly-6C Monoclonal Antibody (RB6-8C5), APC-eFluor 780, 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), APC-eFluor 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RB6-8C5
Conjugate	APC-eFluor® 780
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_1518804

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	78 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 cystometric 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

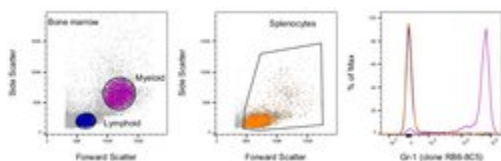
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100  $\mu$ L cell sample + 100  $\mu$ L 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: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2  $\mu$ m post-manufacturing filtered.

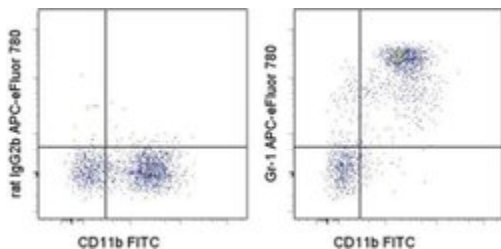
## Advanced Verification Data



### Ly-6G/Ly-6C Antibody (47-5931-82)

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), APC-eFluor 780, eBioscience™



### Ly-6G/Ly-6C Antibody (47-5931-82) in Flow

Staining of C57BL/6 bone marrow cells with Anti-Mouse CD11b FITC (Product # 11-0112-41) and 0.25  $\mu$ g of Rat IgG2b kappa Isotype Control APC-eFluor® 780 (Product # 47-4031-82) (left) or 0.25  $\mu$ g of Anti-Mouse Ly-6G (Gr-1) APC-eFluor® 780 (right). Cells in the large scatter population were used for analysis.

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## Flow Cytometry (78)

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 # 47-5931-82) 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

The EMBO journal

### Multiplexed CRISPR/CAS9-mediated engineering of pre-clinical mouse models bearing native human B cell receptors.

"47-5931 was used in Flow cytometry/Cell sorting to report a one-step CRISPR/Cas9 KI methodology to combine the insertion of human germline immunoglobulin heavy and light chains at their endogenous loci in mice."

Authors: Wang X, Ray R, Kratochvil S, Melzi E, Lin YC, Giguere S, Xu L, Warner J, Cheon D, Liguori A, Groschel B, Phelps N, Adachi Y, Tingle R, Wu L, Crotty S, Kirsch KH, Nair U, Schief WR, Batista FD

**Species**  
Mouse

**Dilution**  
Not Cited

**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

American journal of physiology. Lung cellular and molecular physiology

### Hemorrhagic shock-activated neutrophils augment TLR4 signaling-induced TLR2 upregulation in alveolar macrophages: role in hemorrhage-primed lung inflammation.

Authors: Fan J, Li Y, Vodovotz Y, Billiar TR, Wilson MA

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2006

## More applications with references on thermofisher.com

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