

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Dog, Bacteria, Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RB6-8C5
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466045

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.03 µg/test	186 Publications
Functional Assay (FN)	-	5 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: The RB6-8C5 antibody has been reported for use in flow cytometric analysis.

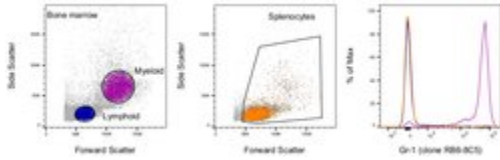
Applications Tested: The RB6-8C5 antibody has been tested by flow cytometric analysis of mouse bone marrow cells and splenocytes. This can be used at less than or equal to 0.03 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

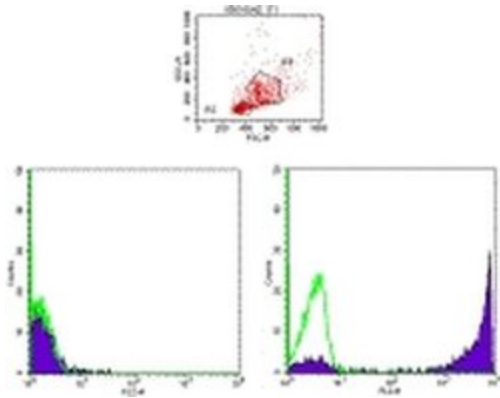
## Advanced Verification Data



### Ly-6G/Ly-6C Antibody (12-5931-82)

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, eBioscience™



### Ly-6G/Ly-6C Antibody (12-5931-82) in Flow

Total BALB/c bone marrow cell suspension was stained with Anti-Mouse Ly-6G (Gr-1) PE. Viable cells were gated on lymphoid (R2) and myeloid (R3) populations based on their scatter. Restricted expression of Ly-6G by myeloid lineage (B) and not by lymphoid lineage (A) is demonstrated. Green histograms are autofluorescence of bone marrow cells.

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## Immunohistochemistry (2)

Cancer cell

### Loss of p53 in enterocytes generates an inflammatory microenvironment enabling invasion and lymph node metastasis of carcinogen-induced colorectal tumors.

"12-5931 was used in Immunohistochemistry to demonstrate that loss of p53 alone is insufficient to initiate intestinal tumorigenesis but enhances carcinogen-induced tumor incidence."

Authors: Schwitala S,Ziegler PK,Horst D,Becker V,Kerle I,Begus-Nahrmann Y,Lechel A,Rudolph KL,Langer R,Slotta-Huspenina J,Bader FG,Prazeres da Costa O,Neurath MF,Meining A,Kirchner T,Greten FR

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2013

European journal of immunology

### The cellular niche of Listeria monocytogenes infection changes rapidly in the spleen.

"12-5931 was used in Immunohistochemistry to illustrate the changeable nature of the cellular niche of Listeria monocytogenes."

Authors: Aoshi T,Carrero JA,Konjufca V,Koide Y,Unanue ER,Miller MJ

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2009

## Immunocytochemistry (3)

Nature communications

### Effector CD4<sup>+</sup> T cells recognize intravascular antigen presented by patrolling monocytes.

"12-5931 was used in Immunocytochemistry-immunofluorescence to determine how effector CD4<sup>+</sup> T cells respond to intravascular antigens."

Authors: Westhorpe CLV,Norman MU,Hall P,Snelgrove SL,Finsterbusch M,Li A,Lo C,Tan ZH,Li S,Nilsson SK,Kitching AR,Hickey MJ

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2018

Neoplasia (New York, N.Y.)

### HIF-/MIF and NF-B/IL-6 axes contribute to the recruitment of CD11b+Gr-1+ myeloid cells in hypoxic microenvironment of HNSCC.

"12-5931 was used in Immunofluorescence to reveal HIF-/MIF and NF-B/IL-6 interaction plays a role in hypoxia-induced accumulation of CD11b+Gr-1+ myeloid cells and tumour growth."

Authors: Zhu G,Tang Y,Geng N,Zheng M,Jiang J,Li L,Li K,Lei Z,Chen W,Fan Y,Ma X,Li L,Wang X,Liang X

**Species**  
Human

**Dilution**  
1:50

**Year**  
2014

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## More applications with references on thermofisher.com

Flow (186)

FN (5)

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