

# Ly-6G/Ly-6C Monoclonal Antibody (RB6-8C5), Alexa Fluor 532, 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), Alexa Fluor 532, eBioscience™ |
| Class                       | Monoclonal  |
| Type                        | Antibody  |
| Clone                       | RB6-8C5   |
| Conjugate                   | Alexa Fluor® 532  |
| 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_11220477   |

| Applications                      | Tested Dilution | Publications    |
|-----------------------------------|-----------------|-----------------|
| Immunohistochemistry (IHC)        | -               | 16 Publications |
| Immunocytochemistry (ICC/IF)      | -               | 6 Publications  |
| Flow Cytometry (Flow)             | 0.25 µg/test    | 51 Publications |
| Immunoprecipitation (IP)          | -               | 1 Publication   |
| Functional Assay (FN)             | -               | 3 Publications  |
| In Situ Hybridization (ISH) (ISH) | -               | 1 Publication   |

## 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.

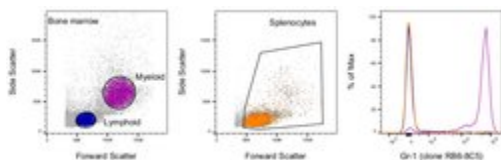
Applications Reported: This RB6-8C5 antibody has been reported for use in flow cytometric analysis.

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 0.25 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.

Alexa Fluor® 532 is excited with the Green laser (532 nm) and emits at 561 nm. This cannot be used with the Yellow-Green laser (561 nm). We recommend using a 560/14 band pass filter. Please make sure that your instrument is capable of detecting this fluorochochrome.

Excitation: 532 nm; Emission: 561 nm; Laser: Green Laser

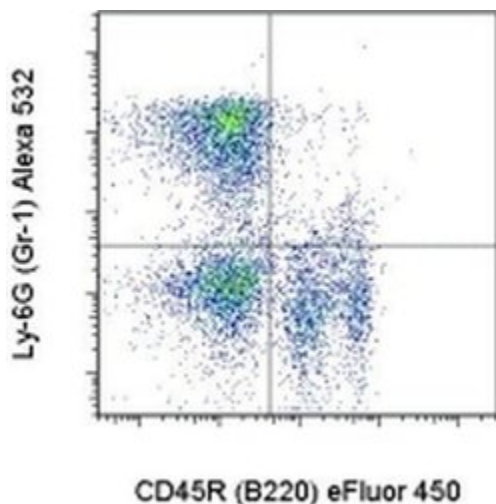
## Advanced Verification Data



### Ly-6G/Ly-6C Antibody (58-5931-82)

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), Alexa Fluor 532, eBioscience™



### Ly-6G/Ly-6C Antibody (58-5931-82) 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 Anti-Mouse Ly-6G (Gr-1) Alexa Fluor® 532 (right). Total viable cells were used for analysis.

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## Immunohistochemistry (16)

### JCI insight

#### Analysis of leukocyte transepithelial migration using an in vivo murine colonic loop model.

"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 58-5931-82) in Immunofluorescence"

Authors: Flemming S, Luissint AC, Nusrat A, Parkos CA

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

### Frontiers in cellular and infection microbiology

#### Gastric TFF1 Expression from Acute to Chronic *Helicobacter* Infection.

"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 58-5931-82) in Immunohistochemistry"

Authors: Esposito R, Morello S, Vllahu M, Eletto D, Porta A, Tosco A

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

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

## Immunocytochemistry (6)

### Nature communications

#### The role of platelets in mediating a response to human influenza infection.

"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 58-5931-82) in Immunocytochemistry"

Authors: Koupenova M, Corkrey HA, Vitseva O, Manni G, Pang CJ, Clancy L, Yao C, Rade J, Levy D, Wang JP, Finberg RW, Kurt-Jones EA, Freedman JE

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2019

### Journal of molecular and cellular cardiology

#### Cardiac inflammation in genetic dilated cardiomyopathy caused by MYBPC3 mutation.

"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 58-5931-82) in Flow Cytometry"

Authors: Lynch TL, Ismahil MA, Jegga AG, Zilliox MJ, Troidl C, Prabhu SD, Sadayappan S

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

[View more ICC/IF references on thermofisher.com](#)

## More applications with references on thermofisher.com

Flow (51)

IP (1)

FN (3)

ISH (1)

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