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.

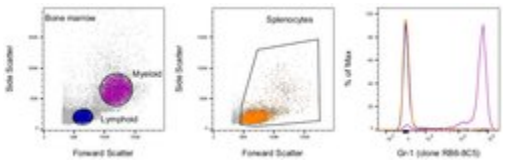
Applications Reported: This RB6-8C5 antibody has been reported for use in flow cytometric analysis.

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 10^5 to 10^8 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 fluorochome.

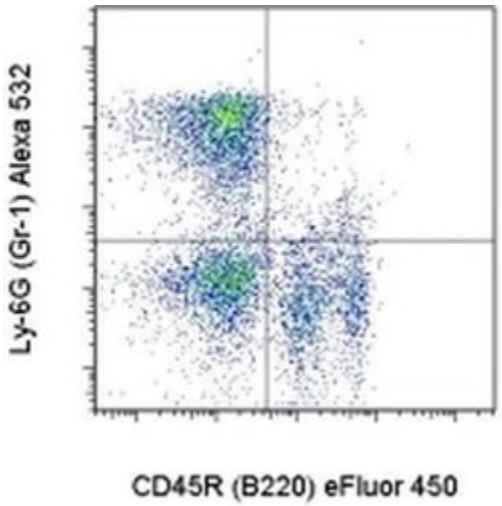
Excitation: 532 nm; Emission: 561 nm; Laser: Green Laser

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.

View more figures on thermofisher.com

78 References

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

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Flow (51) **IP (1)** **FN (3)** **ISH (1)**