

Ly-6G/Ly-6C Monoclonal Antibody (RB6-8C5), Functional Grade, 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), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RB6-8C5
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_469155

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	18 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	0.5 µg/test	68 Publications
Immunoprecipitation (IP)	-	1 Publication
Neutralization (Neu)	-	2 Publications
Functional Assay (FN)	Assay-Dependent	8 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: The RB6-8C5 antibody has been reported for use in flow cytometric analysis. It has also been reported in cell depletion.

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 0.5 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 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

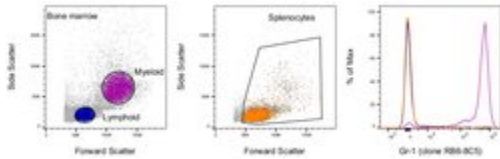
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

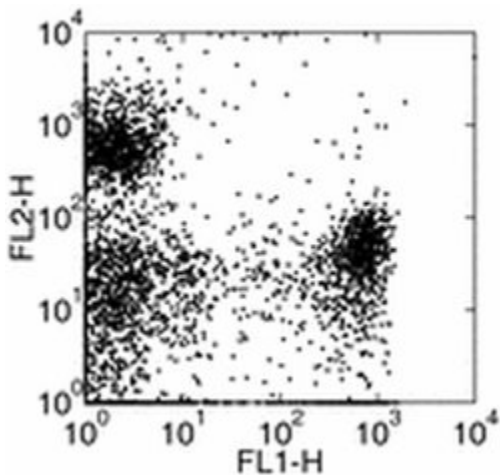
✓ Advanced Verification Data



Ly-6G/Ly-6C Antibody (16-5931-82)

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), Functional Grade, eBioscience™



Ly-6G/Ly-6C Antibody (16-5931-82) in Flow

Staining of mouse bone marrow with Anti-Human/Mouse CD45R (B220) PE (Product # 12-0452-82) and Anti-Mouse Ly-6G (Gr-1) FITC. Total viable cells were used for analysis.

🔍 108 References

Western Blot (1)

Cellular microbiology

The presence of professional phagocytes dictates the number of host cells targeted for Yop translocation during infection.

"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 16-5931-82) in Flow Cytometry"

Authors: Durand EA, Maldonado-Arocho FJ, Castillo C, Walsh RL, Meccas J

Species

Mouse
Not Applicable

Dilution

Not Cited
Not Cited

Year

2010

Immunohistochemistry (18)

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 # 16-5931-82) 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 # 16-5931-82) in Immunohistochemistry"

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

Species

Not Applicable

Dilution

Not Cited

Year

2018

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

Immunohistochemistry (Paraffin) (1)

Oncotarget

C/EBP homologous protein (CHOP) deficiency ameliorates renal fibrosis in unilateral ureteral obstructive kidney disease.

"Published figure using Ly-6G/Ly-6C monoclonal antibody (Product # 16-5931-82) in Immunohistochemistry"

Authors: Liu SH, Wu CT, Huang KH, Wang CC, Guan SS, Chen LP, Chiang CK

Species

Not Applicable

Dilution

Not Cited

Year

2016

More applications with references on thermofisher.com

IHC (F) (2)

ICC/IF (6)

Flow (68)

IP (1)

Neu (2)

FN (8)

ISH (1)

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