

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

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Dog, Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	RB6-8C5
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467730

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	2 Publications
Immunohistochemistry (IHC)	-	41 Publications
Immunohistochemistry (Paraffin) (IHC (P))	10 µg/mL	6 Publications
Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL	8 Publications
Immunocytochemistry (ICC/IF)	-	17 Publications
Flow Cytometry (Flow)	0.5 µg/test	206 Publications
Immunoprecipitation (IP)	Assay-Dependent	2 Publications
Neutralization (Neu)	-	5 Publications
Functional Assay (FN)	Assay-Dependent	27 Publications
Inhibition Assays (IA)	-	1 Publication
In Situ Hybridization (ISH) (ISH)	-	1 Publication
Miscellaneous PubMed (Misc)	-	4 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, immunoprecipitation, immunoblotting (WB), and immunohistochemical staining of frozen or formalin-fixed paraffin embedded tissue. It has also been reported in cell depletion. (Please use Functional Grade purified RB6-8C5, cat. 16-5931, in functional assays.)

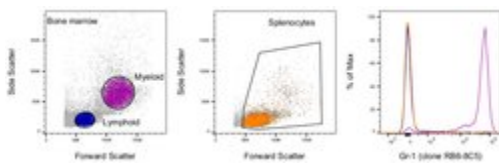
Applications Tested: The RB6-8C5 antibody has been tested by flow cytometric analysis of mouse bone marrow cells and splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test. The RB6-8C5 antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded mouse tissue using low or high pH antigen retrieval and can be used at less than or equal to 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

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

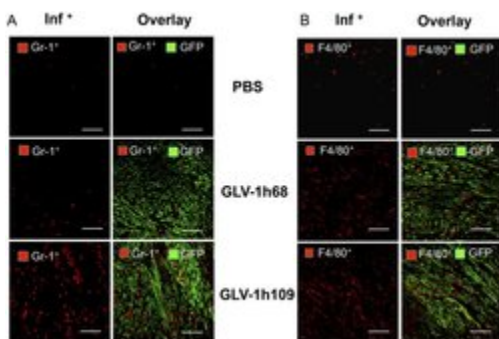
Filtration: 0.2 µm post-manufacturing filtered.

Advanced Verification Data



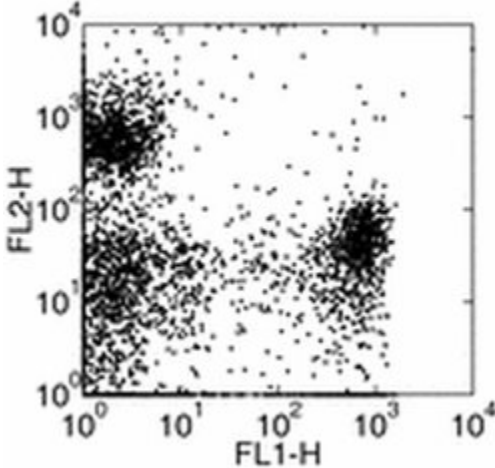
Ly-6G/Ly-6C Antibody (14-5931-82)

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.



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Figure 10 Immunohistochemical staining of infected and uninfected STSA-1 xenograft tumors at 7 dpvi for MDSCs (A) or macrophages (B). Tumor-bearing mice were either infected with GLV-1h109 or GLV-1h68 or mock treated (PBS). Cryosections (10 µm-thick) of tumors were labeled with either anti- Gr-1 (Ly-6G) antibody (A) for MDSCs (granulocytes) or anti- F4/80 + antibody (B) for macrophages; both red. Virus infection and/or phagocytosis was indicated by GFP fluorescence (green). Overlays represented inf + (Gr-1 +)/GFP. Scale bars, 500 µm. (200x magnification). Cell treatment validation info.



Ly-6G/Ly-6C Antibody (14-5931-82) in Flow
Staining of mouse bone marrow with Anti-Mouse Ly-6G (Gr-1) FITC and Anti-Human /Mouse CD45R (B220) PE (Product # 12-0452-82). Total viable cells were used for analysis.

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Western Blot (2)

Scientific reports

Prevention of acute kidney injury by low intensity pulsed ultrasound via anti-inflammation and anti-apoptosis.

"14-5931-82 was used in Western Blot, Immunohistochemistry to investigate the effects of low intensity pulsed ultrasound within acute kidney injury using a mouse model."

Authors: Chiang CK,Loh JZ,Yang TH,Huang KT,Wu CT,Guan SS,Liu SH,Hung KY

Species
Mouse

Dilution
Not Cited

Year
2020

The Journal of clinical investigation

Factor XIII activity mediates red blood cell retention in venous thrombi.

"14-5931 was used in Western Blotting to determine that activity of the transglutaminase factor XIII is critical for red blood cell retention within clots and directly affects thrombus size."

Authors: Aleman MM,Byrnes JR,Wang JG,Tran R,Lam WA,Di Paola J,Mackman N,Degen JL,Flick MJ,Wolberg AS

Species
Mouse

Dilution
1:1,500

Year
2014

Immunohistochemistry (41)

Frontiers in cardiovascular medicine

PEGylated Serp-1 Markedly Reduces Pristane-Induced Experimental Diffuse Alveolar Hemorrhage, Altering uPAR Distribution, and Macrophage Invasion.

"14-5931 was used in Immunohistochemistry to conclude that Serp-1m5 significantly reduces lung damage and hemorrhage in a pristane model of SLE DAH, providing a new potential therapeutic approach."

Authors: Guo Q,Yaron JR,Wallen JW,Browder KF,Boyd R,Olson TL,Burgin M,Ulrich P,Aliskevich E,Schutz LN,Fromme P,Zhang L,Lucas AR

Species
Mouse

Dilution
1:100

Year
2021

Cancer discovery

Epigenetic and Transcriptional Control of the Epidermal Growth Factor Receptor Regulates the Tumor Immune Microenvironment in Pancreatic Cancer.

"14-5931 was used in Immunohistochemistry to define an epigenetic-transcriptional mechanism by which tumor cells modulate their immune microenvironment and highlights the potential of EGFR inhibitors as immunotherapy sensitizers in PDA."

Authors: Li J,Yuan S,Norgard RJ,Yan F,Sun YH,Kim IK,Merrell AJ,Sela Y,Jiang Y,Bhanu NV,Garcia BA,Vonderheide RH,Bianco A,Stanger BZ

Species
Mouse

Dilution
1:50

Year
2021

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IHC (P) (6)

IHC (F) (8)

ICC/IF (17)

Flow (206)

IP (2)

Neu (5)

FN (27)

IA (1)

ISH (1)

Misc (4)

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