

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
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
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	219 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 (Product # 9668) be used when looking at Ly-6G specific targets.

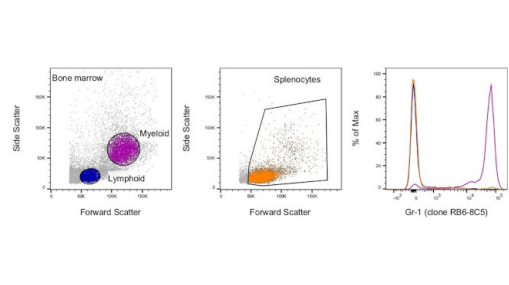
Applications Reported: The RB6-8C5 antibody has been reported for use in flow cytometric analysis.

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

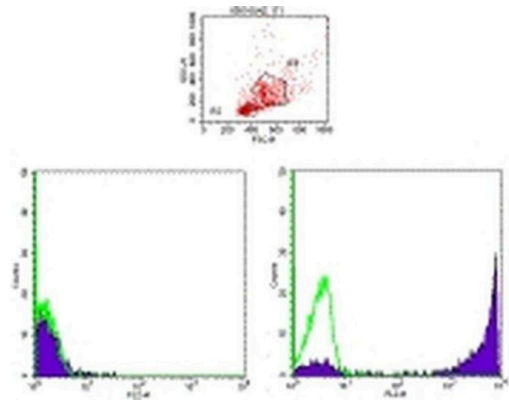
Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



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. {RE}



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)

<p>Cancer cell</p> <p>Loss of p53 in enterocytes generates an inflammatory microenvironment enabling invasion and lymph node metastasis of carcinogen-induced colorectal tumors.</p> <p>"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."</p> <p>Authors: Schwitalla 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</p>	<p>Year 2013</p> <p>Species Mouse</p>
<p>European journal of immunology</p> <p>The cellular niche of Listeria monocytogenes infection changes rapidly in the spleen.</p> <p>"12-5931 was used in Immunohistochemistry to illustrate the changeable nature of the cellular niche of Listeria monocytogenes."</p> <p>Authors: Aoshi T,Carrero JA,Konjufca V,Koide Y,Unanue ER,Miller MJ</p>	<p>Year 2009</p> <p>Species Mouse</p>

Immunocytochemistry (3)

<p>Nature communications</p> <p>Effector CD4⁺ T cells recognize intravascular antigen presented by patrolling monocytes.</p> <p>"12-5931 was used in Immunocytochemistry-immunoflourescence to determine how effector CD4+ T cells respond to intravascular antigens."</p> <p>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</p>	<p>Year 2018</p> <p>Species Mouse</p>
<p>Neoplasia (New York, N.Y.)</p> <p>HIF-/MIF and NF-B/IL-6 axes contribute to the recruitment of CD11b+Gr-1+ myeloid cells in hypoxic microenvironment of HNSCC.</p> <p>"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."</p> <p>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</p>	<p>Year 2014</p> <p>Species Human</p> <p>Dilution 1:50</p>

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- Flow (219)
- FN (5)

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