Ly-6G/Ly-6C Monoclonal Antibody (RB6-8C5), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Dog, Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RB6-8C5
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_469663

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	159 Publications
Functional Assay (Functional)	-	2 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: 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 and splenocytes. This can be used at less than or equal to 0.125 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.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 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-Cyanine7, eBioscience™

Ly-6G/Ly-6C Antibody (25-5931-82)
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 (25-5931-82) 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 Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (left) or 0.125 µg of Anti-Mouse Ly-6G (Gr-1) PE-Cyanine7 (right). Total viable cells were used for analysis.

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163 References

Immunohistochemistry (2)

Journal for immunotherapy of cancer

Androgen receptor blockade resistance with enzalutamide in prostate cancer results in immunosuppressive alterations in the tumor immune microenvironment.

"25-5931-82 was used in Immunohistochemistry to suggest that immunosuppressive signaling can be promoted directly by enzalutamide-resistant prostate cancer cells and may be a potential means by which the efficacy of immune checkpoint inhibitors in enzalutamide-resistant prostate cancer is diminished."

Authors: Xu P,Yang JC,Chen B,Nip C,Van Dyke JE,Zhang X,Chen HW,Evans CP,Murphy WJ,Liu C

Year 2023

Species Mouse

Dilution 1:100

BMC genomics

Influenza H3N2 infection of the collaborative cross founder strains reveals highly divergent host responses and identifies a unique phenotype in CAST/EiJ mice.

Authors: Leist SR,Pilzner C,van den Brand JM,Dengler L,Geffers R,Kuiken T,Balling R,Kollmus H,Schughart K

Year 2016

Species Mouse

Flow Cytometry (159)

Pharmaceutics

MCL-1 Inhibitor S63845 Distinctively Affects Intramedullary and Extramedullary Hematopoiesis.

"25-5931-82 was used in Flow cytometry/Cell sorting to demonstrate the effects of myeloid cell leukemia 1 (MCL-1) inhibitor on the intramedullary and extramedullary hematopoietic lineages, which is important for the selection of combinations of antitumor drugs and the prevention of adverse hematopoiesis-related effects."

Authors: Zhang H,Li F,Yang M,Zhang W,He M,Xu H,Wang C,Zhang Y,Wang W,Gao Y,Du X,Li Y

Year 2023

Species Mouse

Cells

Effective, Long-Term, Neutrophil Depletion Using a Murinized Anti-Ly-6G 1A8 Antibody.

"25-5931-82 was used in Flow Cytometry to show that neutrophils are efficiently depleted in the blood and tumor tissue of IMR32 tumor-bearing SCID mice, analyzed six weeks after the start of the treatment."

Authors: Olofsen PA,Stip MC,Jansen JHM,Chan C,Nederend M,Tieland RG,Tsioumpekou M,Leusen JHW

Year 2022

Species Mouse

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn

Functional (2)

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