

Ly-6G Monoclonal Antibody (1A8-Ly6g), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	1A8-Ly6g
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_2811793

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	19 Publications

Product Specific Information

Description: The monoclonal antibody 1A8-Ly6g reacts with mouse Ly-6G, which is also known as Gr-1. Ly-6G is a 25-kDa GPI protein expressed exclusively by neutrophils. Studies suggest an important role in neutrophil infiltration, recruitment and migration. Ly-6G associates with B2 integrins CD11a and CD11b and can attenuate B2 integrin expression and function. The ligand for Ly-6G is currently unknown.

Unlike the RB6-8C5 antibody, 1A8-Ly6g is reported to only bind to Ly-6G found on neutrophils. Moreover, 1A8-Ly6g has been used to deplete neutrophils and reported to have antagonist activity.

Applications Reported: This 1A8-Ly6G antibody has been reported for use in flow cytometric analysis.

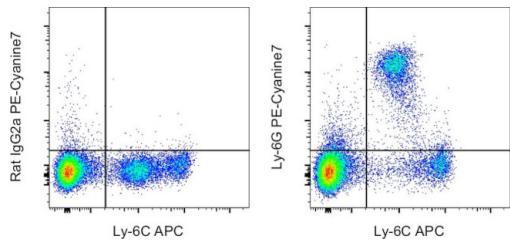
Applications Tested: This 1A8-Ly6G antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This may be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ 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 to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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

Product Images For Ly-6G Monoclonal Antibody (1A8-Ly6g), PE-Cyanine7, eBioscience™



Ly-6G Antibody (25-9668-82) in Flow
C57BL/6 mouse bone marrow cells were stained with Ly-6C Monoclonal Antibody, APC (Product # 17-5932-82) and 0.125 µg of Rat IgG2a kappa Isotype Control, PE-Cyanine7 (Product # 25-4321-82) (left) or 0.125 µg of Ly-6G Monoclonal Antibody, PE-Cyanine7 (right). Total cells were used for analysis.

View more figures on thermofisher.cn

Immunohistochemistry (2)

Frontiers in immunology

Interleukin-4 Programmed Macrophages Suppress Colitis and Do Not Enhance Infectious-Colitis, Inflammation-Associated Colon Cancer or Airway Hypersensitivity.

"Published figure using Ly-6G monoclonal antibody (Product # 25-9668-82) in Immunohistochemistry"

Authors: Callejas BE,Blyth GAD,Jendzjowsky N,Wang A,Babbar A,Koro K,Wilson RJA,Kelly MM,Cobo ER,McKay DM

Year
2021

Science advances

Local sympathetic innervations modulate the lung innate immune responses.

"Published figure using Ly-6G monoclonal antibody (Product # 25-9668-82) in Immunohistochemistry"

Authors: Liu T,Yang L,Han X,Ding X,Li J,Yang J

Year
2020

Immunohistochemistry (Paraffin) (1)

Vaccines

CoV-RBD121-NP Vaccine Candidate Protects against Symptomatic Disease following SARS-CoV-2 Challenge in K18-hACE2 Mice and Induces Protective Responses That Prevent COVID-19-Associated Immunopathology.

"Published figure using Ly-6G monoclonal antibody (Product # 25-9668-82) in Immunocytochemistry"

Authors: DeMarco JK,Royal JM,Severson WE,Gabbard JD,Hume S,Morton J,Swope K,Simpson CA,Shepherd JW,Bratcher B,Palmer KE,Pogue GP

Year
2021

Immunocytochemistry (1)

Vaccines

CoV-RBD121-NP Vaccine Candidate Protects against Symptomatic Disease following SARS-CoV-2 Challenge in K18-hACE2 Mice and Induces Protective Responses That Prevent COVID-19-Associated Immunopathology.

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Year
2021

More applications with references on thermofisher.cn

Flow (19)

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