

Ly-6G Monoclonal Antibody (1A8-Ly6g), Super Bright™ 702, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	1A8-Ly6g
Conjugate	Super Bright™ 702
Excitation/Emission Max	413/702 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2784889

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	9 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 0.5 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.

Super Bright 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

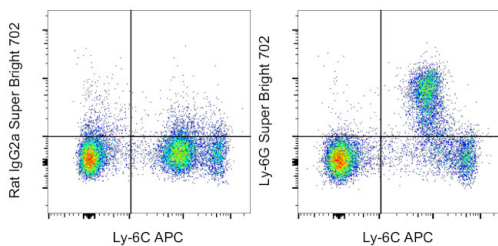
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 μ L of cell sample + 100 μ L 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: 405 nm; Emission: 702 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For Ly-6G Monoclonal Antibody (1A8-Ly6g), Super Bright™ 702, eBioscience™



Ly-6G Antibody (67-9668-82) in Flow

C57BL/6 mouse bone marrow cells were stained with Ly-6G Monoclonal Antibody, APC (Product # 17-5932-82) and 0.25 μ g of Rat IgG2a kappa Isotype Control, Super Bright 702 (Product # 67-4321-82) (left) or 0.25 μ g of Ly-6G Monoclonal Antibody, Super Bright 702 (right). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

[View more figures on thermofisher.com](https://www.thermofisher.com)

15 References

Immunohistochemistry (3)

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 # 67-9668-82) in Flow Cytometry"

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

Year
2021

International journal of molecular sciences

A Simple and Effective Flow Cytometry-Based Method for Identification and Quantification of Tissue Infiltrated Leukocyte Subpopulations in a Mouse Model of Peripheral Arterial Disease.

"Published figure using Ly-6G monoclonal antibody (Product # 67-9668-82) in Immunohistochemistry"

Authors: Kumaraswami K, Salei N, Beck S, Rambichler S, Kluever AK, Lasch M, Richter L, Schraml BU, Deindl E

Year
2020

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

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 # 67-9668-82) 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 (2)

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 # 67-9668-82) 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

More applications with references on thermofisher.com

Flow (9)

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