Ly-6G Monoclonal Antibody (1A8-Ly6g), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Virus, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	1A8-Ly6g
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4°C
RRID	AB_2573128

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.25 µg/test	35 Publications
Functional Assay (Functional)	Assay-Dependent	1 Publication
Inhibition Assays (IA)	-	1 Publication

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 and depletion of neutrophils. Moreover, this antibody has been reported to have antagonist activity. (Fluorochrome-conjugated 1A8-Ly6g is recommended for use in flow cytometry).

Applications Tested: This 1A8-Ly6g antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

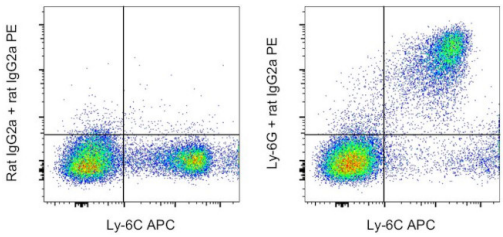
Filtration: 0.2 µm post-manufacturing filtered.

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

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

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

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



Ly-6G Antibody (16-9668-82) 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 (Product # 14-4321-82) (left) or 0.125 µg of Ly-6G Monoclonal Antibody, Functional Grade (right) followed by IgG2a Monoclonal Antibody, PE (Product # 12-4817-82). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

View more figures on thermofisher.cn

47 References

Immunohistochemistry (5)

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 # 16-9668-82) 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

NPJ Regenerative medicine

Neutrophil extracellular traps promote scar formation in post-epidural fibrosis.

"Published figure using Ly-6G monoclonal antibody (Product # 16-9668-82) in Immunohistochemistry"

Authors: Jin Z,Sun J,Song Z,Chen K,Nicolas YSM,Kc R,Ma Q,Liu J,Zhang M

Year
2020

View more IHC references on thermofisher.cn

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 # 16-9668-82) 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

Immunohistochemistry (PFA fixed) (1)

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.

"16-9668-85 was used in Immunohistochemistry (PFA fixed) to identify and quantify leukocyte subpopulations by means of flow cytometry in adductor muscles containing growing collateral arteries."

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

Year
2020

Species
Mouse

Dilution
1:100

More applications with references on thermofisher.cn

ICC/IF (3) Flow (35) Functional (1) IA (1)

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