

# Ly-6G Monoclonal Antibody (1A8-Ly6g), Brilliant Violet™ 421, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Brilliant Violet™ 421, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	1A8-Ly6g
Conjugate	Brilliant Violet™ 421
Excitation/Emission Max	406/423 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_2925553

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	-

## 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 1.0 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Brilliant Violet™ 421 (BV421) is a dye that emits at 423 nm and is intended for use on cytometers equipped with a violet (405 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

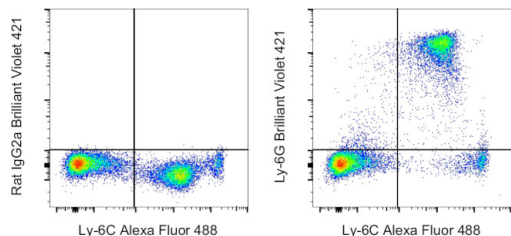
When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42) or Brilliant Stain Buffer™ (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super

Bright Staining Buffer or Brilliant Stain Buffer for more information.

Excitation: 407 nm; Emission: 423 nm; Laser: Violet Laser.

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## Product Images For Ly-6G Monoclonal Antibody (1A8-Ly6g), Brilliant Violet™ 421, eBioscience™



### Ly-6G Antibody (404-9668-80) in Flow

BALB/c mouse bone marrow cells were stained with Ly-6C Monoclonal Antibody, Alexa Fluor 488 (Product # 53-5932-82) and 0.5 µg of Rat IgG2a kappa Isotype Control, Brilliant Violet 421 (Product # 404-4321-81) (left) or 0.5 µg of Ly-6G Monoclonal Antibody, Brilliant Violet 421 (right). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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