SONY

Product Data Sheet

Brilliant Violet 510™ anti-human IgG Fc

Catalog # / Size: 2653580 / 100 tests
2653575 / 25 tests

Clone: M1310G05

Isotype: Rat IgG2a, κ

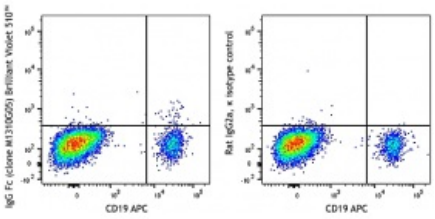
Immunogen: Human Siglec-E-IgG Fc fusion protein.

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD19 APC and IgG (clone M1310G05) Brilliant Violet 510™ (left) or rat IgG2a, κ Brilliant Violet 510™ isotype control (right).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

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Application Notes: Clone M1310G05 recognizes IgG in the membrane of memory B cells, has a stronger affinity for IgG1 and IgG3 than for IgG2 and IgG4, and does not cross react with IgD, IgE, or IgM.

Application References:
1. Paul, WE. (2003). *Fundamental Immunology*. Philadelphia, PA: Lippincott, Williams, & Wilkins.

Description: IgG Fc is a homodimer that is composed of the constant region of the two heavy chains that form the IgG molecule. The Fc fragment mediates opsonization,

antibody dependent cellular cytotoxicity (ADCC), and complement activation through binding to Fc receptors such as CD16, CD32, CD64, and the complement factor C1.

Antigen References:

1. Paul, WE. (2003). *Fundamental Immunology*. Philadelphia, PA: Lippincott, Williams, & Wilkins.