SONY

Product Data Sheet

Alexa Fluor® 647 anti-human IgG Fc

Catalog # / Size: 2653565 / 25 tests
2653570 / 100 tests

Clone: M1310G05

Isotype: Rat IgG2a, κ

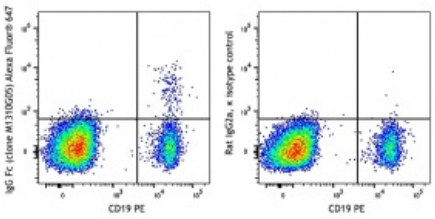
Immunogen: Human Siglec-E-IgG Fc fusion protein.

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD19 PE and IgG (clone M1310G05) Alexa Fluor® 647 (left) or rat IgG2a, κ Alexa Fluor® 647 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.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

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.

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