

Technical Data Sheet

iF647 Anti-Mouse CD19

Catalog Number: 201507, 201508

Size: 25 tests, 100 tests

Target Name: CD19, B4, CVID3, Leu-12, MGC12802

Regulatory Status: RUO

Product Details

Clone: 6D5

Application: FC

Reactivity: Mouse

Format: iF647

Isotype: Rat IgG2a

Antibody Type: Monoclonal

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

Protein Concentration: Supplied at a lot-specific concentration.

Storage and Handling: The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.

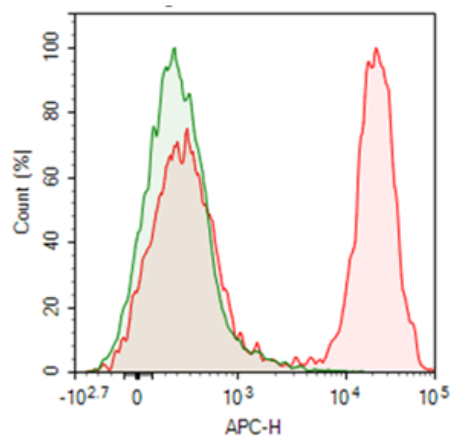
Recommended Usage: For flow cytometric staining, it is recommended to use 5 µL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.

Excitation Laser: Red Laser (633 nm)

Background Information

CD19, also known as B-lymphocyte antigen CD19, B4, Leu-12, or CVID3, is a type I transmembrane glycoprotein encoded by the CD19 gene. It is expressed throughout B cell development from the pro-B stage to mature B cells and is present on most B lineage cells. CD19 functions as an adaptor protein, recruiting cytoplasmic signaling molecules to the membrane, and forms part of the CD19/CD21/CD81 complex, which lowers the activation threshold for B cell receptor (BCR) signaling. Because of its consistent expression on B cells, CD19 serves as a key biomarker for B cell development and is widely used in the diagnosis of B cell lymphomas and leukemias. It is also a major therapeutic target in immunotherapies, including CAR T-cell therapy for B cell malignancies.

Product Data



Mouse splenocytes stained with iF647 Anti-mouse CD19 clone 6D5 (red histogram) or an isotype control (green histogram).