

## Technical Data Sheet

### iF488 Anti-Mouse CD19

**Catalog Number:** 201505, 201506

**Size:** 25 tests, 100 tests

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

**Regulatory Status:** RUO

#### Product Details

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**Clone:** 6D5

**Application:** FC

**Reactivity:** Mouse

**Format:** iF488

**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:** Blue Laser (488 nm)

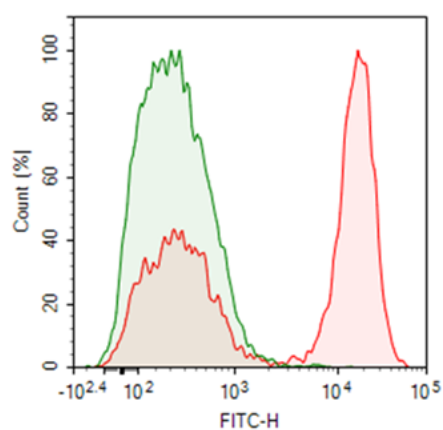
#### Background Information

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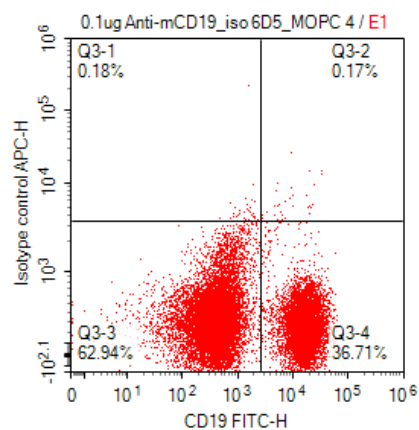
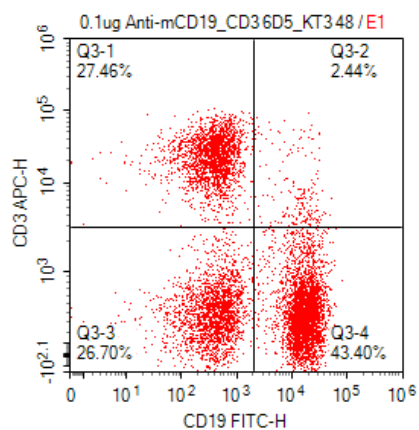
CD19, also known as B-lymphocyte antigen CD19, B4, Leu-12, or CVID3, is a type I transmembrane glycoprotein encoded by the CD19 gene. It is expressed throughout B cell development from the pro-B stage to mature B cells and is present on most B lineage cells. CD19 functions as an adaptor protein, recruiting 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

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Mouse splenocytes stained with iF488 Anti-mouse CD19 clone 6D5 (red histogram) or an isotype control (green histogram).



Mouse splenocytes stained with iF488 Anti-mouse CD19 clone 6D5 and iF647 Anti-mouse CD3 clone KT3 (left panel) or with an isotype control (right panel).