

InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

Technical Data Sheet

Anti-Mouse CD19

Catalog Number: 201901, 201902

Size: 100 ug, 500 ug

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

Regulatory Status: RUO

Product Details

Clone: 1D3
Application: FC
Reactivity: Mouse
Format: Purified
Isotype: Rat IgG2a

Antibody Type: Monoclonal

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Protein Concentration: 0.5 mg/mL

Storage&Handling: The antibody solution should be stored between 2°C and 8°C

Recommended Usage: For flow cytometric staining, it is recommended to use less than 0.2 ug of this reagent per 0.5-1.0 million cells in a 100 μ L volume. Optimal reagent performance should be

determined by titration for each specific application.

Background Information

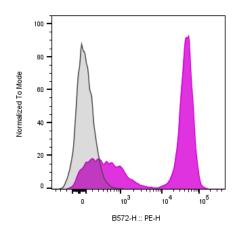
CD19, also known as B-lymphocyte antigen CD19, B4, Leu-12, or CVID3, is a type I transmembrane glycoprotein encoded by the CD19 gene. It is expressed throughout B cell development from the pro-B stage to mature B cells and is present on most B lineage cells. CD19 functions as an adaptor protein, recruiting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

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Mouse splenocytes stained with either purified Anti-mouse CD19 clone 1D3 (color-filled histogram) or an isotype control (gray histogram), followed by secondary PE anti-rat IgG.