

## PE Anti-mouse CD19 Antibody

<b>Catalog Number:</b>	201907, 201908
<b>Size:</b>	25 tests, 100 tests
<b>Target Name:</b>	CD19, B4, CVID3, Leu-12, MGC12802
<b>Regulatory Status:</b>	RUO

### PRODUCT DETAILS

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<b>Clone:</b>	1D3
<b>Application:</b>	Flow Cytometry
<b>Reactivity:</b>	Mouse
<b>Format:</b>	PE
<b>Isotype:</b>	Rat IgG2a
<b>Antibody Type:</b>	Monoclonal
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA
<b>Protein Concentration:</b>	Supplied at a lot-specific concentration.
<b>Storage&amp;Handling:</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
<b>Recommended Usage:</b>	For flow cytometric staining, it is recommended to use 5 uL 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.
<b>Excitation Laser:</b>	Blue Laser (488 nm) Green/Yellow laser (532/561nm)

### 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 were stained with PE Anti-Mouse CD19 clone 1D3 (color-filled histogram) or an isotype control (gray histogram) .

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