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iF700 Anti-Mouse CD16/32 Antibody

Catalog Number: 206905, 206906

Size: 25 µg, 100 µg

Target Name: CD16/32

Regulatory Status: RUO

PRODUCT DETAILS

Clone: ICMB001

Application: Flow Cytometry

Reactivity: Mouse

Format: iF700

Isotype: Rat IgG2b

Antibody Type: Monoclonal

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

Protein Concentration: 0.2 mg/mL

Storage&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 less than 0.25 µg 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. iF700 has an excitation max at 690 nm and an emission max at 710 nm.

Excitation Laser: Red Laser (633 nm)

Isotype Controls: 303603

Antibody Family: Mouse Antibodies

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

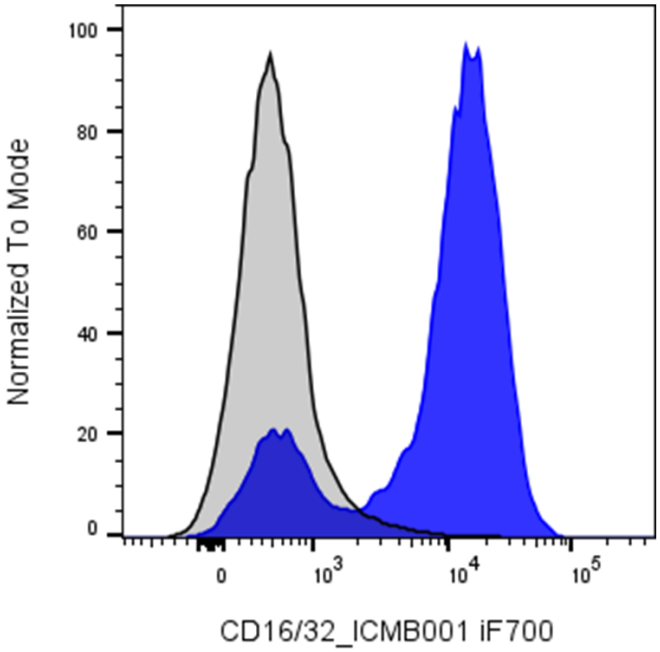
Isotype Control: 303603

BACKGROUND INFORMATION

CD16/32 are Fc-gamma receptors (FcγRs) expressed on a variety of immune cells, including B cells, monocytes/macrophages, NK cells, granulocytes, mast cells, and dendritic cells. CD16 corresponds to the low-affinity Fc receptor III (FcγRIII), while CD32 corresponds to Fc receptor II (FcγRII). These receptors bind antibody-antigen immune complexes, linking innate and adaptive immunity and mediating adaptive immune responses. In research, antibodies against CD16/CD32 are commonly used to block Fc receptor-mediated interactions, preventing non-specific binding of antibodies or immunoglobulin complexes to immune cells during

experiments such as flow cytometry and immunohistochemistry, thereby improving experimental accuracy.

PRODUCT DATA



C57BL/6 Mouse splenocytes were stained with iF700 Anti-Mouse CD16/32 clone ICBB001 (color-filled histogram) or an isotype control (gray histogram).

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