

InnoCyto Inc.

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Technical Data Sheet

FITC Anti-Mouse CD16/32

Catalog Number: 201811, 201812

Size: 25 tests, 100 tests Target Name: CD16/32 Regulatory Status: RUO

Product Details

Clone: 2.4G2
Application: FC
Reactivity: Mouse
Format: FITC

Isotype: Mouse IgG2b

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&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 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. **Excitation Laser:** Blue Laser (488 nm)

Background Information

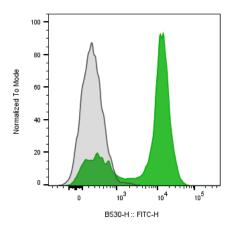
CD16/32 are Fc-gamma receptors (Fc?Rs) expressed on a variety of immune cells, including B cells, monocytes/macrophages, NK cells, granulocytes, mast cells, and dendritic cells. CD16 corresponds to the low-affinity Fc receptor III (Fc?RIII), while CD32 corresponds to Fc receptor II (Fc?RII). These receptors 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.

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Mouse splenocytes stained with either FITC Anti-Mouse CD16/32 clone 2.4G2 (color-filled histogram) or an isotype control (gray histogram).