

## Technical Data Sheet

### Anti-Mouse CD16/32 Antibody

**Catalog Number:** 201801, 201802

**Size:** 100 ug, 500 ug

**Target Name:** CD16/32

**Regulatory Status:** RUO

#### Product Details

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**Clone:** 2.4G2

**Application:** Flow Cytometry

**Reactivity:** Mouse

**Format:** Purified

**Isotype:** Rat IgG2b

**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 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

**Isotype Control:** [300301](#)

#### Background Information

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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.