

## Technical Data Sheet

### Biotin Anti-Human CD16

**Catalog Number:** 100909, 100910

**Size:** 25 ug, 100 ug

**Target Name:** CD16, Fc $\gamma$ RIII

**Regulatory Status:** RUO

#### Product Details

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**Clone:** 016AB

**Application:** FC

**Reactivity:** Human

**Format:** Biotin

**Isotype:** Rabbit IgG

**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 and 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 0.2 ug of this reagent per 0.5-1.0 million cells in a 100  $\mu$ L volume. Optimal reagent performance should be determined by titration for each specific application

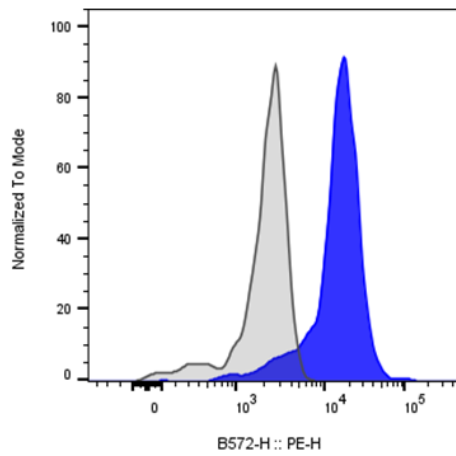
#### Background Information

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CD16 is the type III Fc $\gamma$  receptor. In humans, it exists in two different forms: Fc $\gamma$ RIIIa (CD16a) and Fc $\gamma$ RIIIb (CD16b). CD16, also known as Fc $\gamma$ RIII, is a cluster of differentiation molecule found on the surface of natural killer cells, neutrophils, monocytes, macrophages, and certain T cells. CD16 has been identified as Fc receptors Fc $\gamma$ RIIIa (CD16a) and Fc $\gamma$ RIIIb (CD16b), which participate in signal transduction. It is expressed specifically on neutrophils. CD16 is often used as an additional marker to reliably identify different subsets of human immune cells.

#### Product Data

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Human peripheral blood monocytes stained with either Biotin Anti-Human CD16 clone 016AB (blue histogram) or an isotype control (gray histogram), followed by SA-PE.