

## Technical Data Sheet

### APC Anti-Human CD14

**Catalog Number:** 106107, 106108

**Size:** 25 tests, 100 tests

**Target Name:** CD14, LPS receptor

**Regulatory Status:** RUO

#### Product Details

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**Clone:** 63D3

**Application:** FC

**Reactivity:** Human

**Format:** APC

**Isotype:** Mouse IgG1

**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 µL 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:** Red Laser (633 nm)

**Release Date:** Nov-25

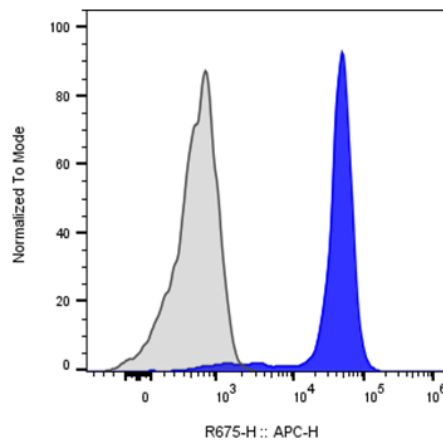
#### Background Information

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CD14 (cluster of differentiation 14) is a human protein made mostly by macrophages as part of the innate immune system. CD14 is a 53-55 kD glycosylphosphatidylinositol (GPI)-linked membrane glycoprotein that is also known as the LPS receptor. CD14 is expressed at high levels on monocytes and macrophages, and at lower levels on granulocytes. Some dendritic cell populations such as interfollicular dendritic cells, reticular dendritic cells, and Langerhans cells have also been reported to express CD14. As a high-affinity receptor for LPS, CD14 is involved in the clearance of gram-negative pathogens and in the upregulation of adhesion molecules and cytokine expression in monocytes and neutrophils.

#### Product Data

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Human peripheral blood lymphocytes stained either APC Anti-Human CD14 clone 63D3 (color-filled histogram) or an isotype control (gray histogram).