## Alexa Fluor® 647 anti-human CD14

Catalog # / Size: 2228060 / 100 tests

2228055 / 25 tests

Clone: HCD14

**Isotype:** Mouse IgG1, κ

Reactivity: Human

**Preparation:** The antibody was purified by affinity

chromatography, and conjugated with

Alexa Fluor® 647 under optimal

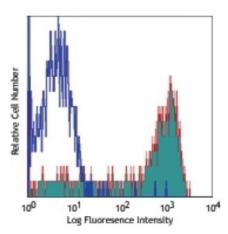
conditions.

**Formulation:** Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood monocytes stained with HCD14 alexa Fluor® 647

## **Applications:**

**Applications:** Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for

each application.

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at

633nm / 635nm.

Application Notes:

Additional reported applications (for the relevant formats) include:

immunofluorescence microscopy. This clone was tested in-house and does not

work on formalin fixed paraffin-

embedded (FFPE) tissue.

Human peripheral blood mononuclear cells were fixed with 2% paraformaldehyde (PFA) and then stained with 5 microg/ml CD14 (clone HCD14) Alexa Fluor® 647 (red) and 5 microg/ml CD3 (clone OKT3) Brilliant Violet 421™ (blue) for 30 minutes at ro

Application References:

1. McMichael A, et al. 1987. Leucocyte Typing III. Oxford University Press. New York.

2. Knapp W, et al. Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.

3. Schlossman S, et al. Eds. 1995. Leucocyte Typing V. Oxford University Press.

New York.

**Description:** CD14 is a 53-55 kD glycosylphosphatidylinositol (GPI)-linked membrane

glycoprotein also known as 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 cytokines expression in monocytes and neutrophils.

**Antigen** 1. Stocks S, *et al.* 1990. *Biochem. J.* 268:275. **References:** 2. Wright S, *et al.* 1990. *Science* 249:1434.