SONY

Product Data Sheet

Brilliant Violet 750™ anti-human CD14

Catalog # / Size: 2435675 / 25 tests
2435680 / 100 tests

Clone: 63D3

Isotype: Mouse IgG1, κ

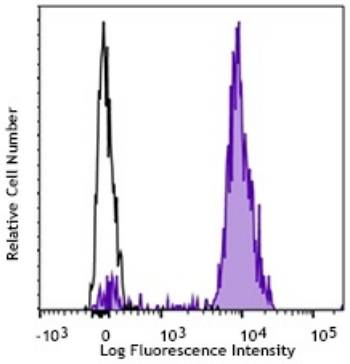
Immunogen: Purified human peripheral blood monocytes.

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 750™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 750™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood monocytes were stained with Brilliant Violet 750™ anti-human CD14 (clone 63D3) (filled histogram). Open histogram represents unstained cells.

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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

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Application References:

1. Fridlender ZG, *et al.* 1999. *Hum. Immunol.* 11:1028.
2. Devitt A, *et al.* 1998. *Nature* 6675:505.

Description: 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.

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Antigen References:
1. Stocks SC, *et al.* 1990. *Biochem. J.* 268:275.
2. Wright SD, *et al.* 1990. *Science* 4975:1431.