

TECHNICAL DATA SHEET

violetFluor™ 500 Anti-Human CD14 (61D3)

Catalog Number: 85-0149

PRODUCT INFORMATION

Contents: violetFluor™ 500 Anti-Human CD14 (61D3)

Isotype: Mouse IgG1, kappa

Concentration: 5ul (0.5ug)/test

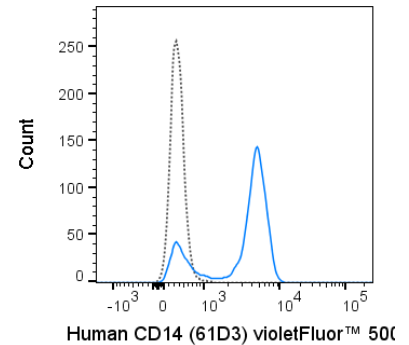
Clone: 61D3

Reactivity: Human

Use By: 6 months from date of receipt

Storage Conditions: 2-8°C protected from light

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, 0.1% gelatin, pH7.2



Human peripheral blood monocytes were stained with 5 uL (0.5 ug) violetFluor™ 500 Anti-Human CD14 (85-0149) (solid line) or 0.5 ug violetFluor™ 500 Mouse IgG1 isotype control (dashed line).

DESCRIPTION

The 61D3 antibody is specific for human CD14, a 53-55 kDa GPI-anchored glycoprotein. CD14 is highly expressed on monocytes and to a lesser extent on interfollicular macrophages, and some dendritic cells. Together with LPS-Binding Protein (LBP), CD14 binds to and mediates the innate immune response to bacterial lipopolysaccharide (LPS).

PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

APPLICATION NOTES

This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 uL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 uL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10e5 to 1x10e8 cells.

violetFluor™ 500 dye is excited by the violet (405 nm) laser and has a peak emission of 500 nm. The recommended band pass filter for this dye is 525/20. violetFluor™ 500 can be used as an alternative for BD Horizon™ V500, eFluor® 506 or Pacific Orange®.

REFERENCES

- Hogg N, Horton MA. 1987. In: McMichael AJ, Beverley PCL, Cobbold S, et al., eds. Leucocyte Typing III: White Cell Differentiation Antigens. New York, NY: Oxford University Press; 576-602.
- Haziot A, Chen S, Ferrero E, Low MG, Silber R, Goyert SM. 1988. J Immunol. 141: 547-552.
- Wright SD, Ramos RA, Tobias PS, Ulevitch RJ, Mathison JC. 1990. Science. 249: 1431-1433.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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