

## TECHNICAL DATA SHEET

# violetFluor™ 500 Anti-Human CD16 (3G8)

Catalog Number: 85-0166

## PRODUCT INFORMATION

**Contents:** violetFluor™ 500 Anti-Human CD16 (3G8)

**Isotype:** Mouse IgG1, k

**Concentration:** 5 µL (0.5 µg)/test

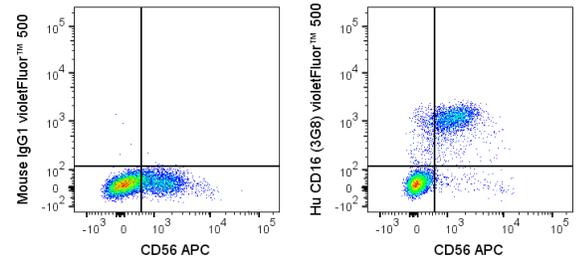
**Clone:** 3G8

**Reactivity:** Human

**Use By:** 6 months from date of receipt

**Storage Conditions:** 2-8°C protected from light

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>,  
0.1% gelatin, pH7.2



Human peripheral blood lymphocytes were stained with APC Anti-Human CD56 (20-0564) and 5 µL (0.5 µg) violetFluor™ 500 Anti-Human CD16 (85-0166) (right panel) or 0.5 µg violetFluor™ 500 Mouse IgG1 isotype control (left panel).

## DESCRIPTION

The 3G8 monoclonal antibody reacts with the 50-65kD transmembrane form of human CD16 (FCGR3A). CD16 is the low affinity IgG receptor III and is expressed on NK cells and macrophages. CD16 participates in signal transduction and mediates antibody-dependent cellular cytotoxicity (ADCC) by natural killer (NK) cells. The second form of CD16 (FCGR3B) is a glycosyl-phosphatidylinositol (GPI) linked molecule expressed exclusively on neutrophils.

## 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 µL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 µL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10<sup>5</sup> to 1x10<sup>8</sup> 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

Fleit HB, Wright SD, Unkeless JC. 1982. Proc Natl Acad Sci U S A. May;79(10):3275-3279. Windebank KP, Abraham RT, Powis G, Olsen RA, Barna TJ, Leibson PJ. 1988. J Immunol. Dec 1;141(11):3951-3957. Fleit HB. 1991. Clin Immunol Immunopathol. May;59(2):222-235. Wirthmueller U, Kurosaki T, Murakami MS, Ravetch JV. 1992. J Exp Med. May 1;175(5):1381-1390.

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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