

TECHNICAL DATA SHEET

# APC Anti-Human CD16 (3G8)

Catalog Number: 20-0166

## PRODUCT INFORMATION

**Contents:** APC Anti-Human CD16 (3G8)

**Isotype:** Mouse IgG1, k

**Concentration:** 5 µL (0.5 µg)/test

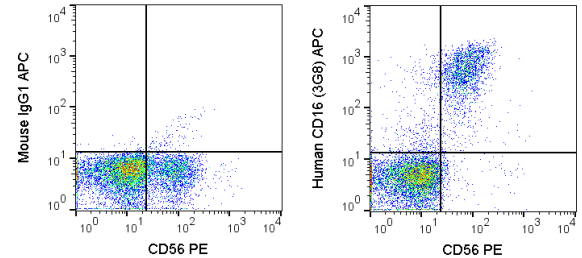
**Clone:** 3G8

**Reactivity:** Human

**Use By:** 12 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 PE Anti-Human CD56 (50-0564) and 5 µL (0.5 µg) APC Anti-Human CD16 (20-0166) (right panel) or 0.5 µg APC 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.

## 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.

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