

TECHNICAL DATA SHEET

Biotin Anti-Human CD16 (3G8)

Catalog Number: 30-0166

PRODUCT INFORMATION

Contents: Biotin Anti-Human CD16 (3G8)

Isotype: Mouse IgG1, k

Concentration: 0.5 mg/mL

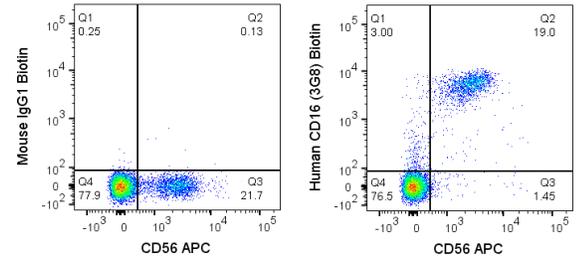
Clone: 3G8

Reactivity: Human

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% Na₃, pH 7.2



Human peripheral blood lymphocytes were stained with APC Anti-Human CD56 (20-0564) and 0.5 ug Biotin Anti-Human CD16 (30-0166) (right panel) or 0.5 ug Biotin Mouse IgG1 isotype control (left panel), followed by Streptavidin PE.

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 biotin 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 quality-tested for flow cytometry using an appropriate cell type (as indicated). Please refer to the figure legend for the optimal concentration used to stain the tissue shown. We recommend titrating the antibody under your specific conditions to determine the optimal concentration of antibody needed in your experimental system.

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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