Anti-Human CD16 (3G8)



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PURE	16PU2-01MG	100 µg	1μg/test	
FITC	16F2-100T	100 test	20 μL/test	
PE	16PE2-100T	100 test	20 μL/test	RUO
APC	16A2-100T	100 test	20 μL/test	
CFBlue	16CFB2-100T	100 test	5 μL/test	
PE-Cy7	16PC7-100T	100 test	5 μL/test	

1. PRODUCT DESCRIPTION

- Isotype: IgG1;
- Tested application : flow cytometry:
- Immunogen: The Mouse anti-human CD16 monoclonal antibody derives from human polymorphonuclear leukocytes;
- Workshop No.: N409:
- Species reactivity: Human, Cynomolgus, Baboon, Rhesus;
- Storage instruction: store in the dark at 2-8 °C;
- Storage buffer: aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN₃);
- Recommended usage: Immunostep's CD16, clone 3G8 is a monoclonal antibody intended for the identification and enumeration of FcgammaRIII antigen (FcyRIII) present on NK cells, neutrophils and macrophages in peripheral blood and bone marrow. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1test for 106 cells;
- Presentation: liquid;
- Source: Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
- Purification: Protein-A affinity chromatography;
- Other names: FCRIII, Fc-gamma receptor III, CD16, FCG3, FCGR3, IGFR4;
- Gene ID: 2214
- Molecular weight: Ig superfamily, transmembrane form (50-65 kDa) or GPI-linked form (48 kDa).

2. ANTIGEN DETAILS

Large description: The CD16 molecule has been described as the low affinity Fc receptor (FcRIII) for complexed IgG and may exists as two distinct isoforms, FcyRIIIA and FcyRIIIB. In humans, FcyRIIIA is expressed as a transmembranous polypeptide-anchored form on monocytes, macrophages, and lymphocytes such as NK cells. FcyRIIIB is also detected on neutrophils as a GPI-anchored form. T and B cells do not express this Fc receptor. Expression of CD16 on lymphocytes and monocytes is similar in non-human primates.

The 3G8 antibody blocks the binding of soluble immune complexes to granulocytes. (1-6)

The epitopes of 3G8 has been localized on the putative FG loop of the membrane-proximal Ig-like domain, which we have previously identified as the major binding site for IgG, so almost completely block the receptor's interaction with IgG⁽⁴⁾.

Clone 3G8 is used as anti-pan-FcyRIII (CD16) monoclonal antibodies whereas clone GRM1 recognizes NA2-FcyRIIIb and FcyRIIIa⁽⁶⁾.

3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

Revision Nº 8| Emission date: 03/02/2021

Not for resale. Immunostep will not be responsible of violations that may occur with the use of this product. Any use of this product other than the specified in this document is strictly prohibited.

Unless otherwise indicated by Immunostep by written authorization, this product is intended for research only and is not to be used for any other purpose, including without limitation, for human or animal diagnostic, the

Please, refer to www.immunostep.com technical support for more information.

5. REFERENCES

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- Zhu X, Hamann KJ, Munoz NM, Rubio N, Mayer D, Hernreiter A, et al. Intracellular expression of Fc gamma RIII (CD16) and its mobilization by chemoattractants in human eosinophils. J Immunol 1998 Sep 1;161(5):2574-9.
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- Knapp W. Leucocyte typing IV: white cell differentiation antigens. Oxford: Oxford University Press; 1989.

6. EXPLANATION OF SYMBOLS

	Fluorochrome
REF	Product reference
Σ	Content for <n> analysis</n>
\Diamond	ISO 15223
	Regulatory Status
RUO	Research Use Only
***	Manufacturer

7. MANUFACTURED BY:

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