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Anti- Human CD16 (3G8)

Fluorochrome	Reference	Size
Pure	16PU2-OIMG	100 test
FITC	16F2-100T	100 test
PE	16PE2-100T	100 test
PerCP	16PP2-100T	100 test
APC	16A2-100T	100 test
Biotin	16B2-OIMG	100 test
CF-Blue	16CFB2-100T	100 test
OC515	16OC2-100T	100 test

PRODUCT DESCRIPTION

Clone: 3G8

Isotype: IgG1

Tested application: flow cytometry

Immunogen: The Mouse anti-human CD16 monoclonal antibody derives from human polymorphonuclear leukocytes.

Workshop No.IV N409

Species reactivity: Human, Cynomolgus, Baboon, Rhesus.

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 FcγRIII antigen (FcγRIII) 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 $\leq 1 \mu\text{g}/10^6$ cells.

Presentation: liquid

Source: Supernatant proceeding from an *in vitro* cell culture of a cell hybridoma.

Purification: Protein-A affinity chromatography.

ANTIGEN DETAILS

Large description: The CD16 molecule has been described as the low affinity Fc receptor (FcRIII) for complexed IgG and may exist as two distinct isoforms, FcγRIIIA and FcγRIIIB. In humans, FcγRIIIA is expressed as a transmembranous polypeptide-anchored form on monocytes, macrophages, and lymphocytes such as NK cells. FcγRIIIB 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-FcγRIII (CD16) monoclonal antibodies whereas clone GRM1 recognizes NA2-FcγRIIIB and FcγRIIIa⁽⁵⁾.

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)

Please, refer to <http://immunostep.com/content/31-support> for technical information.

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.

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