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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti- Human CD16 (GRM1)

Fluorochrome	Reference	Size
Pure	16PUI-OIMG	100 test
FITC	16FI-100T	100 test

PRODUCT DESCRIPTION

Clone: GRM1

Isotype: IgG1, kappa

Tested application: flow cytometry

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

Species Reactivity: Human

Storage buffer: aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN₃).

Recommended usage: Mouse Anti-Human CD16 monoclonal antibody FITC-conjugated, clone GRM1, is recommended for use in flow cytometry for identification 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 ≤1 μg/10⁵ cells.

Presentation: liquid

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

Purification: Affinity chromatography.

ANTIGEN DETAILS

Large description: The CD16 molecule has been described as the low affinity Fc receptor (FcRIII) for complexed IgG which may exist either as a transmembranous form (FcRIIIa) which is expressed on NK cells, and macrophages or as glycosylphosphatidylinositol (GPI)-anchored form (FcRIIIb) expressed on neutrophils. The GPI-anchored CD16B exists as two allelic forms termed NA1 (CD16B^{NA1}) and NA2 (CD16B^{NA2})⁽⁴⁾

Clone GRM1 recognizes an epitope on the distal domain. It binds strongly with neutrophils of NA2 homozygotes and reacts weakly with neutrophils of NA1 homozygotes, while on neutrophils of NA1/NA2 heterozygotes it reacts with intermediate intensity⁽¹⁾. The mobility of the CD16-antigen is dependent on the NA1/NA2 allotype of the neutrophil donor⁽²⁾.

Clone GRM1 recognizes NA2-FcγRIIIb and FcγRIIIa, whereas clone 3G8 is an Anti-pan FcγRIII⁽³⁾.

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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MANUFACTURED BY



Immunostep S.L

Avda. Universidad de Coimbra, s/n
Cancer Research Center (CIC)
Campus Miguel de Unamuno
37007 Salamanca (Spain)
Tel. (+34) 923 294 827
www.immunostep.com