

Mouse anti-Human CD16 Monoclonal Antibody | anti-CD16 antibody

anti-human CD16-Fab

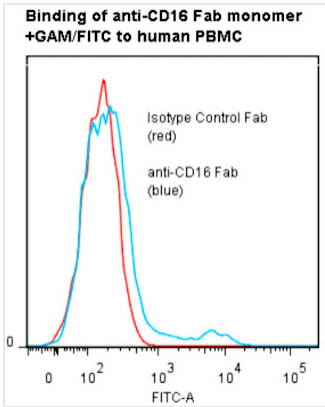
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78150	Mouse	Human	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD16; Monoclonal Antibody; anti-human CD16-Fab; Monoclonal anti-human CD16(FcγRIII) Fab; anti-CD16 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	3G8
Form/Format	50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl. Product was sterile filtered and vialled under aseptic conditions. No preservative added.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	233
Applicable Applications for anti-CD16 antibody	FCM/FACS (Flow Cytometry)
Performance	Five x 10 ⁵ ficoll prepared human peripheral blood mononuclear cells were washed and incubated 45 minutes on ice with 80 ul of anti-CD16 Fab diluted to 10 ug/ml. Cells were washed twice and incubated with 2° reagent Goat anti-Mouse IgG/FITC (Catalog #:), after which they were washed three times, fixed and analyzed by FC. A net 6.8 % sub population of the cells stained positive with a mean shift of 1.21 log ₁₀ fluorescent units when compared to a Mouse IgG1 Fab Isotype control (Catalog #).
Conjugation	Fab
Production	Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Immunoglobulin was enzymatically cleaved using Immobilized Ficin. Fab monomer was separated from intact antibody, F(ab') ₂ and Fc fragments by Protein A and Size exclusion chromatography. No intact antibody was observed by SDS-PAGE.
Immunogen	Human polymorphonuclear leukocytes
Preparation and Storage	Store at 2 - 5°C. Open under aseptic conditions. Freeze/Thawing is not recommended. Product should retain activity for 12 months after shipping date when stored as recommended.



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CD16 antibody	Information: Human CD16 is a low affinity receptor for complexed IgG and occurs in two distinct forms, as a glycosyl phosphatidyl inositol (GPI) anchored protein in granulocytes, and as an integral membrane protein on NK cells and macrophages. Antibody 3G8 recognizes both allelic forms of CD16. Antibody 3G8 blocks binding of complexed IgG to CD16.
References	H.B. Fleit, et al, (1982) Proc Natl Acad Sci USA 79: 3275-3279. Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 574-597. G. Trinchieri & N. Valiante, (1993) Natural Immunity 12: 218-234. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 805-814. J.C. Edberg & R.P. Kimberly, (1997) J Immunol 159: 3849-3857.

NCBI AND UNIPROT INFORMATION

NCBI GI #	8176551
NCBI GeneID	2214
NCBI Official Full Name	CD16, partial
NCBI Official Synonym Full Names	Fc fragment of IgG, low affinity IIIa, receptor (CD16a)
NCBI Official Symbol	FCGR3A
NCBI Official Synonym Symbols	CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; FCGRIII; FCRIIIA
NCBI Protein Information	low affinity immunoglobulin gamma Fc region receptor III-A; FcgammaRIIIA; CD16a antigen; fc-gamma RIII; Fc-gamma RIIIA; Fc-gamma RIII-alpha; igG Fc receptor III-2; Fc gamma receptor III-A; Fc-gamma receptor IIIB (CD16); neutrophil-specific antigen NA; Fc-gamma receptor III-2 (CD 16); immunoglobulin G Fc receptor III; Fc fragment of IgG, low affinity III, receptor for (CD16)
UniProt Protein Name	Low affinity immunoglobulin gamma Fc region receptor III-A
UniProt Gene Name	FCGR3A
UniProt Synonym Gene Names	CD16A; FCG3; FCGR3; IGFR3; Fc-gamma RIII; Fc-gamma RIIIA; FcRIII; FcRIIIA
UniProt Entry Name	FCG3A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.