

CD16 Monoclonal Antibody (3G8)

Catalog NumberMA1-10112

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Non-human primate
Host/Isotope	Mouse / IgG1, kappa	Published species	Human, Rhesus monkey, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution *6 µg/mL
Clone	3G8	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Immunogen	Human neutrophils	Immunoprecipitation (IP)	Assay-dependent
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Flow Cytometry (Flow)	See 20 publications below
Concentration	1 mg/mL	Miscellaneous PubMed (Misc)	See 13 publications below
Purification	Protein A	Immunohistochemistry (IHC)	See 1 publications below
Storage buffer	PBS, pH 7.4	ELISA (ELISA)	See 1 publications below
Contains	15mM sodium azide	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage Conditions	4° C, do not freeze		

Product specific information

Immunohistochemistry (Frozen): acetone fixation.

Background/Target Information

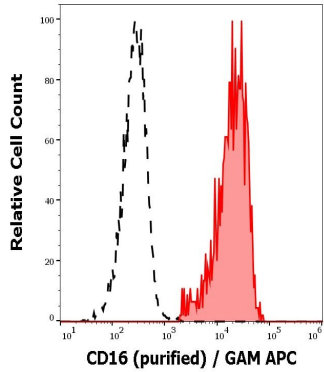
CD16 encodes a receptor that recognizes the Fc portion of immunoglobulin G and is involved in the clearance of immune complexes from the circulation, as well as other functions such as cellular mediated cytotoxicity and enhancement of virus infections. This gene, FCGR3A, shares a high degree of similarity with another nearby gene, FCGR3B, located on chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, while FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene have been associated with immunodeficiency 20 and have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Diseases associated with FCGR3A include Immunodeficiency 20 and Herpes Zoster.

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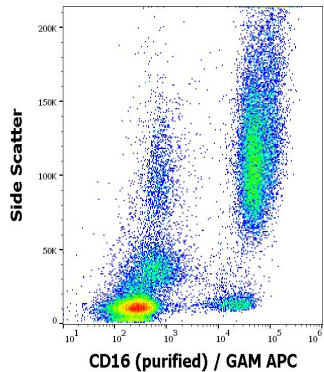
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CD16 Antibody (MA1-10112) in Flow

Separation of human CD16 positive lymphocytes (red-filled) from CD16 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD16 (3G8) purified Monoclonal antibody (Product # MA1-10112). Concentration in sample 2 µg/mL, GAM APC.



CD16 Antibody (MA1-10112) in Flow

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD16 (3G8) purified Monoclonal antibody (Product # MA1-10112). Concentration in sample 2 µg/mL, GAM APC.

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PubMed References For CD16 Monoclonal Antibody (3G8)

20 Flow Cytometry References

Species / Dilution	Summary
	MA1-10112 was used in flow cytometry to discuss how to diagnosis hematolymphoid neoplasms using flow cytometry.
Human / Not Cited	Cytometry. Part B, Clinical cytometry (2016; 88: 413) "Case study interpretation: Report from the ICCS Annual Meeting, Seattle, 2014." Author(s):Fromm JR,Tagliente DJ,Shaver AC,Neppalli V,Craig FE PubMed Article URL: http://dx.doi.org/10.1002/cyto.b.21238
Not Applicable / Not Cited	MA1-10112 was used in flow cytometry to discuss methods to distinguish natural killer cells from natural killer T cells Cytometry. Part A : the journal of the International Society for Analytical Cytology (2005; 65: 103) "Polychromatic (eight-color) slide-based cytometry for the phenotyping of leukocyte, NK, and NKT subsets." Author(s):Mittag A,Lenz D,Gerstner AO,Sack U,Steinbrecher M,Kosch M,Raffael A,Bocsi J,Tárnok A PubMed Article URL: http://dx.doi.org/10.1002/cyto.a.20140
Not Applicable / Not Cited	MA1-10112 was used in flow cytometry to assess the immunological status after Bz-treatment during early indeterminate Chagas disease Microbes and infection (2008; 10: 103) "Etiological treatment during early chronic indeterminate Chagas disease incites an activated status on innate and adaptive immunity associated with a type 1-modulated cytokine pattern." Author(s):Sathler-Avelar R,Vitelli-Avelar DM,Massara RL,de Lana M,Pinto Dias JC,Teixeira-Carvalho A,Elói-Santos SM, Martins-Filho OA PubMed Article URL: http://dx.doi.org/10.1016/j.micinf.2007.10.009
Human / Not Cited	MA1-10112 was used in flow cytometry to study perturbations in eosinophil homeostasis following treatment of lymphatic filariasis. Infection and immunity (2000; 68: 93) "Perturbations in eosinophil homeostasis following treatment of lymphatic filariasis." Author(s):Gopinath R,Hanna LE,Kumaraswami V,Perumal V,Kavitha V,Vijayasekaran V,Nutman TB PubMed Article URL: http://dx.doi.org/10.1128/IAI.68.1.93-99.2000
Human / Not Cited	MA1-10112 was used in flow cytometry to compare fine needle aspiration cytology with flow cytometry immunophenotyping for the diagnosis of lymphoproliferative processes in the salivary glands. Cytopathology : official journal of the British Society for Clinical Cytology (2014; 25: 231) "Flow cytometry significantly improves the diagnostic value of fine needle aspiration cytology of lymphoproliferative lesions of salivary glands." Author(s):Stacchini A,Aliberti S,Pacchioni D,Demurtas A,Isolato G,Gazzera C,Veltri A,Maletta F,Molinaro L,Novero D PubMed Article URL: http://dx.doi.org/10.1111/cyt.12084
Not Applicable / Not Cited	MA1-10112 was used in flow cytometry to elucidate how the monoclonal antibody, 11C9, reduces dendritic cell-induced T cell activation Journal of immunology (Baltimore, Md. : 1950) (2004; 173: 6000) "CD63 as an activation-linked T cell costimulatory element." Author(s):Pfistershammer K,Majdic O,Stöckl J,Zlabinger G,Kirchberger S,Steinberger P,Knapp W PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.173.10.6000
Human / Not Cited	MA1-10112 was used in flow cytometry to examine various DC after flu vaccination Immunological investigations (2015; 43: 606) "Transient decrease in human peripheral blood myeloid dendritic cells following influenza vaccination correlates with induction of serum antibody." Author(s):Kobie JJ,Treanor JJ,Ritchlin CT PubMed Article URL: http://dx.doi.org/10.3109/08820139.2013.871555
Not Applicable / Not Cited	MA1-10112 was used in flow cytometry to determine the origin of tumor macrophages Nature (2011; 475: 222) "CCL2 recruits inflammatory monocytes to facilitate breast-tumour metastasis." Author(s):Qian BZ,Li J,Zhang H,Kitamura T,Zhang J,Campion LR,Kaiser EA,Snyder LA,Pollard JW PubMed Article URL: http://dx.doi.org/10.1038/nature10138
Not Applicable / Not Cited	MA1-10112 was used in flow cytometry to characterize dendritic cells in type 1 and type 2 diabetes Clinical immunology (Orlando, Fla.) (2006; 121: 81) "Reduced IFN-alpha secretion by blood dendritic cells in human diabetes." Author(s):Summers KL,Marleau AM,Mahon JL,McManus R,Hramiak I,Singh B PubMed Article URL: http://dx.doi.org/10.1016/j.clim.2006.05.015

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	MA1-10112 was used in flow cytometry to discuss the effects of in vivo CTLA-4 blockade as a part of a DNA vaccination regimen in cynomolgus macaques
Not Applicable / Not Cited	Journal of medical primatology (2008; 37 Suppl 2: 62) "CTLA-4 blockade in vivo promotes the generation of short-lived effector CD8 T cells and a more persistent central memory CD4 T cell response." Author(s):Hokey DA,Yan J,Hirao LA,Dai A,Boyer JD,Jure-Kunkel MN,Weiner DB PubMed Article URL: http://dx.doi.org/10.1111/j.1600-0684.2008.00324.x
Not Applicable / Not Cited	MA1-10112 was used in flow cytometry to examine the consequences of CD83 ligand engagement on antigen-specific CD8+ T cells Blood (2006; 107: 1528) "Engagement of CD83 ligand induces prolonged expansion of CD8+ T cells and preferential enrichment for antigen specificity." Author(s):Hirano N,Butler MO,Xia Z,Ansén S,von Bergwelt-Baildon MS,Neuberg D,Freeman GJ,Nadler LM PubMed Article URL: http://dx.doi.org/10.1182/blood-2005-05-2073
Not Applicable / Not Cited	MA1-10112 was used in flow cytometry to test if human fetal liver cells expressing CD34 and CK7/8 represent a common stem cell for both the hematopoietic and hepatic systems Journal of hepatology (2004; 40: 261) "Searching for common stem cells of the hepatic and hematopoietic systems in the human fetal liver: CD34+ cytokeratin 7/8+ cells express markers for stellate cells." Author(s):Suskind DL,Muench MO PubMed Article URL: http://dx.doi.org/10.1016/j.jhep.2003.11.007
Human / Not Cited	MA1-10112 was used in flow cytometry to discuss methods to detect fetomaternal hemorrhage. Transfusion (2014; 54: 1305) "Accurate quantitation of D+ fetomaternal hemorrhage by flow cytometry using a novel reagent to eliminate granulocytes from analysis." Author(s):Kumpel B,Hazell M,Guest A,Dixey J,Mushens R,Bishop D,Wreford-Bush T,Lee E PubMed Article URL: http://dx.doi.org/10.1111/trf.12484
Not Applicable / Not Cited	MA1-10112 was used in flow cytometry to develop a 6-color assay to identify dendritic cells Cytometry. Part B, Clinical cytometry (2008; 74: 349) "A six-color flow cytometric assay for the analysis of peripheral blood dendritic cells." Author(s):Giannelli S,Taddeo A,Presicce P,Villa ML,Della Bella S PubMed Article URL: http://dx.doi.org/10.1002/cyto.b.20434
Human / Not Cited	MA1-10112 was used in flow cytometry to test if Th1- and Th2-like conditions alter antigen expression and function of plasmacytoid dendritic cells Allergy (2011; 66: 386) "Differential development of plasmacytoid dendritic cells in Th1- and Th2-like cytokine milieus." Author(s):Bratke K,Klein C,Kuepper M,Lommatzsch M,Virchow JC PubMed Article URL: http://dx.doi.org/10.1111/j.1398-9995.2010.02497.x
Human / Not Cited	MA1-10112 was used in Flow Cytometry to establish the recommended Phase II dose (RP2D). Secondary objectives included overall response rate (ORR), progression-free survival (PFS), and overall survival (OS). Cancers (2020; 12:) "Phase I Study of Fcclatuzumab and Cetuximab in Cetuximab-Resistant, Recurrent/Metastatic Head and Neck Cancer." Author(s):Bauman JE,Ohr J,Gooding WE,Ferris RL,Duvvuri U,Kim S,Johnson JT,Soloff AC,Wallweber G,Winslow J,Gaither-Davis A,Grandis JR,Stabile LP PubMed Article URL: http://dx.doi.org/10.3390/cancers12061537
Rhesus monkey / Not Cited	MA1-10112 was used in flow cytometry to develop a newborn/infant model to study infection with Mycobacterium tuberculosis Tuberculosis (Edinburgh, Scotland) (2013; 93 Suppl: S51) "Establishment of a neonatal rhesus macaque model to study Mycobacterium tuberculosis infection." Author(s):Cepeda M,Salas M,Folwaczny J,Leandro AC,Hodara VL,de la Garza MA,Dick EJ,Owston M,Armitige LY,Gauduin MC PubMed Article URL: http://dx.doi.org/10.1016/S1472-9792(13)70011-8
Not Applicable / Not Cited	MA1-10112 was used in flow cytometry to develop an assay to quantitate the number of latently infected cells carrying replication competent HIV-1 Methods in molecular biology (Clifton, N.J.) (2005; 304: 3) "Enhanced culture assay for detection and quantitation of latently infected, resting CD4+ T-cells carrying replication-competent virus in HIV-1-infected individuals." Author(s):Siliciano JD,Siliciano RF PubMed Article URL: http://dx.doi.org/10.1385/1-59259-907-9:003

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	MA1-10112 was used in flow cytometry to study the effect of natural occurring viral ssRNA on DC function
Not Applicable / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2009; 183: 4440) "The ssRNA genome of human rhinovirus induces a type I IFN response but fails to induce maturation in human monocyte-derived dendritic cells." Author(s):Schrauf C,Kirchberger S,Majdic O,Seyerl M,Zlabinger GJ,Stuhlmeier KM,Sachet M,Seipelt J,Stöckl J PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.0804147
	MA1-10112 was used in flow cytometry to test if activation of monocytes via FcγR induced cell differentiation
Not Applicable / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2009; 183: 2349) "Activation of Fc γRI on monocytes triggers differentiation into immature dendritic cells that induce autoreactive T cell responses." Author(s):Tanaka M,Krutzik SR,Sieling PA,Lee DJ,Rea TH,Modlin RL PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.0801683
13 Miscellaneous PubMed References	
Species / Dilution	Summary
	MA1-10112 was used in flow cytometry to examine adhesion molecules in patients with restenosis.
Human / Not Cited	Cytometry. Part B, Clinical cytometry (2003; 53: 63) "Pre-procedural expression of Mac-1 and LFA-1 on leukocytes for prediction of late restenosis and their possible correlation with advanced coronary artery disease." Author(s):Rahimi K,Maerz HK,Zotz RJ,Tárnok A PubMed Article URL: http://dx.doi.org/10.1002/cyto.b.10036
	MA1-10112 was used in flow cytometry and immunoprecipitation to compare Fc γRIII(CD16) transcripts isolated from PMN and NK cells.
Human / Not Cited	The Journal of experimental medicine (1989; 170: 481) "Alternative membrane forms of Fc γRIII(CD16) on human natural killer cells and neutrophils. Cell type-specific expression of two genes that differ in single nucleotide substitutions." Author(s):Ravetch JV,Perussia B PubMed Article URL: http://dx.doi.org/10.1084/jem.170.2.481
	MA1-10112 was used in flow cytometry to characterize B7-H3.
Human / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2004; 172: 2352) "Molecular characterization of human 4Ig-B7-H3, a member of the B7 family with four Ig-like domains." Author(s):Steinberger P,Majdic O,Derdak SV,Pfistershammer K,Kirchberger S,Klauser C,Zlabinger G,Pickl WF,Stöckl J,Knapp W PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.172.4.2352
	MA1-10112 was used in flow cytometry to characterize human splenic dendritic cells.
Human / 2 µg/ml	Blood (2001; 97: 3470) "Investigation of human spleen dendritic cell phenotype and distribution reveals evidence of in vivo activation in a subset of organ donors." Author(s):McIlroy D,Troadec C,Grassi F,Samri A,Barrou B,Autran B,Debré P,Feuillard J,Hosmalin A PubMed Article URL: http://dx.doi.org/10.1182/blood.v97.11.3470
	MA1-10112 was used in flow cytometry to characterize the localization and function of STRL33/Bonzo.
Human / Not Cited	Blood (2000; 96: 41) "Expression and coreceptor activity of STRL33/Bonzo on primary peripheral blood lymphocytes." Author(s):Sharron M,Pöhlmann S,Price K,Lolis E,Tsang M,Kirchhoff F,Doms RW,Lee B PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/10891428
	MA1-10112 was used in flow cytometry to examine CD56 expression in a cohort of acute myeloid leukemia patients in to assess its frequency and prognostic relevance.
Human / Not Cited	Haematologica (2002; 87: 250) "Prognostic significance of CD56 antigen expression in acute myeloid leukemia." Author(s):Di Bona E,Sartori R,Zambello R,Guercini N,Madeo D,Rodeghiero F PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/11869936
	MA1-10112 was used in flow cytometry to assess the efficacy of using flow cytometry immunophenotyping with fine-needle aspiration cytology for the diagnosis of thyroid lymphoma.
Human / Not Cited	Cytometry. Part B, Clinical cytometry (2016; 88: 320) "Utility of flow cytometry as ancillary study to improve the cytologic diagnosis of thyroid lymphomas." Author(s):Stacchini A,Pacchioni D,Demurtas A,Aliberti S,Cassenti A,Isolato G,Gazzera C,Veltri A,Sapino A,Papotti M,Freddi M,Palestini N,Sisto G,Novero D PubMed Article URL: http://dx.doi.org/10.1002/cyto.b.21204

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	MA1-10112 was used in immunoprecipitation to identify a locus for at least two Fc gamma R genes on human chromosome 1.
Human / Not Cited	<p>Proceedings of the National Academy of Sciences of the United States of America (1989; 86: 1013) "Human Fc gamma RIII: cloning, expression, and identification of the chromosomal locus of two Fc receptors for IgG." Author(s):Peltz GA,Grundy HO,Lebo RV,Yssel H,Barsh GS,Moore KW PubMed Article URL:http://dx.doi.org/10.1073/pnas.86.3.1013</p> <p>MA1-10112 was used in flow cytometry to discuss the live attenuated yellow fever vaccines.</p>
Human / Not Cited	<p>The Journal of infectious diseases (2011; 204: 873) "Cytokine signatures of innate and adaptive immunity in 17DD yellow fever vaccinated children and its association with the level of neutralizing antibody." Author(s):Luiza-Silva M,Campi-Azevedo AC,Batista MA,Martins MA,Avelar RS,da Silveira Lemos D,Bastos Camacho LA,de Menezes Martins R,de Lourdes de Sousa Maia M,Guedes Farias RH,da Silva Freire M,Galler R,Homma A,Leite Ribeiro JG,Campos Lemos JA,Auxiliadora-Martins M,Eloi-Santos SM,Teixeira-Carvalho A,Martins-Filho OA PubMed Article URL:http://dx.doi.org/10.1093/infdis/jir439</p> <p>MA1-10112 was used in flow cytometry to determine the number of CD4, CCR5, and CXCR4 antibody-binding sites on various T cells and macrophages.</p>
Human / Not Cited	<p>Proceedings of the National Academy of Sciences of the United States of America (1999; 96: 5215) "Quantification of CD4, CCR5, and CXCR4 levels on lymphocyte subsets, dendritic cells, and differentially conditioned monocyte-derived macrophages." Author(s):Lee B,Sharron M,Montaner LJ,Weissman D,Doms RW PubMed Article URL:http://dx.doi.org/10.1073/pnas.96.9.5215</p> <p>MA1-10112 was used in flow cytometry to test if leukocyte Ig-like receptor A2 regulates DC differentiation using a leprosy model.</p>
Human / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) (2007; 179: 8128) "LILRA2 activation inhibits dendritic cell differentiation and antigen presentation to T cells." Author(s):Lee DJ,Sieling PA,Ochoa MT,Krutzik SR,Guo B,Hernandez M,Rea TH,Cheng G,Colonna M,Modlin RL PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.179.12.8128</p> <p>MA1-10112 was used in flow cytometry to report how to isolate highly purified hematopoietic intermediates.</p>
Human / Not Cited	<p>Proceedings of the National Academy of Sciences of the United States of America (2002; 99: 11872) "Prospective isolation of human clonogenic common myeloid progenitors." Author(s):Manz MG,Miyamoto T,Akashi K,Weissman IL PubMed Article URL:http://dx.doi.org/10.1073/pnas.172384399</p> <p>MA1-10112 was used in flow cytometry to assess the effects of a TransFix-based stabilization technique on leukocyte scatter characteristics, immunophenotyping, membrane permeability, absolute cell counting and morphology.</p>
Human / Not Cited	<p>Journal of immunological methods (2004; 295: 67) "Evaluation of leukocyte stabilisation in TransFix-treated blood samples by flow cytometry and transmission electron microscopy." Author(s):Canonico B,Zamai L,Burattini S,Granger V,Mannello F,Gobbi P,Felici C,Falcieri E,Reilly JT,Barnett D,Papa S PubMed Article URL:http://dx.doi.org/10.1016/j.jim.2004.09.013</p>

1 Immunohistochemistry References

Species / Dilution	Summary
	MA1-10112 was used in flow cytometry and immunohistochemistry to assess the expression of NK cell receptors and cytokines in the human endometrium
Not Applicable / Not Cited	<p>Journal of leukocyte biology (2004; 76: 667) "Unique phenotype of human uterine NK cells and their regulation by endogenous TGF-beta." Author(s):Eriksson M,Meadows SK,Wira CR,Sentman CL PubMed Article URL:http://dx.doi.org/10.1189/jlb.0204090</p>

1 ELISA References

Species / Dilution	Summary
	MA1-10112 was used in ELISA to identify immunoregulatory molecules on dendritic cells.
Human / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) (2003; 170: 3637) "B7-H1 (programmed death-1 ligand) on dendritic cells is involved in the induction and maintenance of T cell anergy." Author(s):Selenko-Gebauer N,Majdic O,Szekeres A,Höfler G,Guthann E,Korthäuer U,Zlabinger G,Steinberger P,Pickl WF,Stockinger H,Knapp W,Stöckl J PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.170.7.3637</p>

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