

CD64 Monoclonal Antibody (10.1)

Catalog NumberMA5-16433

Product data sheet

Details		Species Reactivity	
Size	500 µg	Species reactivity	Human, Non-human primate
Host/Isotope	Mouse / IgG1	Published species	Non-human primate, Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution *1:50-1:200
Clone	10.1	Functional Assay (FN)	Assay-dependent
Immunogen	Human monocytes	Immunocytochemistry (ICC/IF)	Assay-dependent
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Flow Cytometry (Flow)	See 3 publications below
Concentration	1 mg/mL	Miscellaneous PubMed (Misc)	See 3 publications below
Purification	Protein A	* 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 buffer	PBS		
Contains	no preservative		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This product is a low-endotoxin, preservative-free formulation. Endotoxin level is <0.01 EU/ug. For FACS analysis, use 10 µL of the suggested working dilution to label 1x10^6 cells in 100 µL. Mouse anti Human CD64 antibody, clone 10.1 recognizes the human CD64 cell surface antigen, a ~75 kDa glycoprotein expressed by monocytes.

Background/Target Information

CD64 (FCGR1A) encodes a protein that plays an important role in the immune response. CD64 is a high-affinity Fc-gamma receptor and is one of three related gene family members located on chromosome 1. CD64 plays an important role in the immune response and its dysfunction has been studied in cervical adenitis and tetrasomy 21.

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PubMed References For CD64 Monoclonal Antibody (10.1)

3 Flow Cytometry References

Species / Dilution	Summary
Not Applicable / Not Cited	MA5-16433 was used in flow cytometry to examine the consequences of CD83 ligand engagement on antigen-specific CD8+ T cells
	Blood ( 2006; 107: 1528) <b>"Engagement of CD83 ligand induces prolonged expansion of CD8+ T cells and preferential enrichment for antigen specificity."</b> Author(s):Hirano N,Butler MO,Xia Z,Ansén S,von Bergwelt-Baildon MS,Neuberg D,Freeman GJ,Nadler LM PubMed Article URL: <a href="http://dx.doi.org/10.1182/blood-2005-05-2073">http://dx.doi.org/10.1182/blood-2005-05-2073</a>
Human / Not Cited	MA516433 was used in flow cytometry to analyze the frequency and phenotype of monocyte subpopulations in peripheral blood, cerebrospinal fluid, and brain biopsy material derived from multiple sclerosis patients
	Journal of immunology (Baltimore, Md. : 1950) ( 2016; 196: 1558) <b>"Pivotal Role for CD16+ Monocytes in Immune Surveillance of the Central Nervous System."</b> Author(s):Waschbisch A,Schröder S,Schraudner D,Sammet L,Weksler B,Melms A,Pfeifenbring S,Stadelmann C,Schwab S,Linker RA PubMed Article URL: <a href="http://dx.doi.org/10.4049/jimmunol.1501960">http://dx.doi.org/10.4049/jimmunol.1501960</a>
Not Applicable / Not Cited	MA5-16433 was used in flow cytometry to examine how FCGR3B copy number affects immune responses
	The Journal of experimental medicine ( 2008; 205: 1573) <b>"Copy number of FCGR3B, which is associated with systemic lupus erythematosus, correlates with protein expression and immune complex uptake."</b> Author(s):Willcocks LC,Lyons PA,Clatworthy MR,Robinson JI,Yang W,Newland SA,Plagnol V,McGovern NN,Condliffe AM,Chilvers ER,Adu D,Jolly EC,Watts R,Lau YL,Morgan AW,Nash G,Smith KG PubMed Article URL: <a href="http://dx.doi.org/10.1084/jem.20072413">http://dx.doi.org/10.1084/jem.20072413</a>

3 Miscellaneous PubMed References

Species / Dilution	Summary
Human / Not Cited	MA5-16433 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.
	Haematologica ( 2002; 87: 250) <b>"Prognostic significance of CD56 antigen expression in acute myeloid leukemia."</b> Author(s):Di Bona E,Sartori R,Zambello R,Guercini N,Madeo D,Rodeghiero F PubMed Article URL: <a href="http://www.ncbi.nlm.nih.gov/pubmed/11869936">http://www.ncbi.nlm.nih.gov/pubmed/11869936</a>
Human / Not Cited	MA5-16433 was used in flow cytometry to examine the effects of age and gender on TLR9 expression on human DCs.
	Human immunology ( 2012; 73: 493) <b>"Plasmacytoid dendritic cells and their Toll-like receptor 9 expression selectively decrease with age."</b> Author(s):Garbe K,Bratke K,Wagner S,Virchow JC,Lommatzsch M PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.humimm.2012.02.007">http://dx.doi.org/10.1016/j.humimm.2012.02.007</a>
Non-human primate / Not Cited	MA5-16433 was used in flow cytometry to discuss available reagents for studying the neotropical primate squirrel monkey.
	Journal of immunological methods ( 2005; 297: 61) <b>"Flow cytometry identification and characterization of mononuclear cell subsets in the neotropical primate Saimiri sciureus (squirrel monkey)."</b> Author(s):Contamin H,Loizon S,Bourreau E,Michel JC,Garraud O,Mercereau-Puijalon O,Behr C PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.jim.2004.11.019">http://dx.doi.org/10.1016/j.jim.2004.11.019</a>

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