Alexa Fluor[®] 700 anti-human CD64

Catalog # / Size:	2125195 / 25 tests 2125200 / 100 tests	
Clone:	10.1	A 64
lsotype:	Mouse IgG1, κ	Human peripheral blood monocytes were stained with CD64 (Clone 10.1) Alexa Fluor 700 (filled histogram) or mouse
lmmunogen:	Human rheumatoid synovial fluid cells and fibronectin-purified monocytes.	
Reactivity:	Human, Non-human primate, Other	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 700.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	
Workshop Number:	VI MA36	lgG1 Alexa Fluor 700 isotype control (open histogram).
Concentration:	Lot-specific	

Applications:

Applications:	Flow Cytometry	
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.	
Application Notes:	Clone 10.1 recognizes the EC3 epitope of CD64. While both contain the EC3 domain, in-house testing suggests that clone 10.1 preferentially binds to CD64A ($Fc\gamma RIA$), but not CD64B ($Fc\gamma RIB$). Additional reported applications (for the relevant formats) include: blocking of human IgG3 and murine IgG2a binding to $Fc\gamma RI^{2,5,6,11}$ and immunohistochemical staining of acetone-fixed frozen tissue sections ¹² .	
Application References:	 McMichael A, et al. Eds. 1987. Leucocyte Typing III. Oxford University Press. New York. Schlossman S, et al. Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. p. 874. Kishimoto T, et al. Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London. Holl V, et al. 2004. J. Immunol. 173:6274. Hober D, et al. 2002. J. Gen. Virol. 83:2169. Cho HJ, et al. 2007. Physiol Genomics 149:60. van Tits L, et al. 2005. Arterioscler Thromb Vasc Biol. 25:717. PubMed Bruhns P, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC) Carter DL, et al. 1999. Cytometry 37:41. (FC) Dougherty GJ, et al. 1987. Eur. J. Immunol. 17:1453. Blom AB, et al. 2003. Arthritis Rheum. 48(4):1002-14. (IHC) 	

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Description: CD64 is a 72 kD single chain type I glycoprotein also known as FcγRI and FcR I. CD64 is a member of the immunoglobulin superfamily and is expressed on monocytes/macrophages, dendritic cells, and activated granulocytes. The expression can be upregulated by IFN-γ stimulation. CD64 binds IgG immune complex. It plays a role in antigen capture, phagocytosis of IgG/antigen complexes, and antibody-dependent cellular cytotoxicity (ADCC).

Antigen 1. Hulett M, et al. 1994. Adv. Immunol. 57:1.References: 2. van de Winkel J, et al. 1993. Immunol. Today 14:215.