Brilliant Violet 785[™] anti-human CD64

Catalog # / Size:		
Clone:	10.1	5
lsotype:	Mouse IgG1, к	₩
lmmunogen:	Human rheumatoid synovial fluid cells and fibronectin-purified monocytes.	Relative Cell Number
Reactivity:	Human, Non-human primate, Other	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 785 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 785 [™] and unconjugated antibody.	Human peripheral blood monocytes were stained with
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	CD64 (clone 10.1) Brilliant Violet 785™ (filled histogram) or mouse IgG1 Brilliant Violet 785™
Workshop Number:	VI MA36	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.
	Brilliant Violet 785 [™] excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 785 [™] is a trademark of Sirigen Group Ltd.
	This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
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 γ RIA), but not CD64B (Fc γ RIB). Additional reported applications (for the relevant formats) include: blocking of human IgG3 and murine IgG2a binding to Fc γ RI ^{2,5,6,11} and immunohistochemical staining of acetone-fixed frozen tissue sections ¹² .

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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. 2008. Blood 113:3716. 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)
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,

cytotoxicity (ADCC).

Antigen References: 1. Hulett M, et al. 1994. Adv. Immunol. 57:1.

2. van de Winkel J, et al. 1993. Immunol. Today 14:215.

phagocytosis of IgG/antigen complexes, and antibody-dependent cellular

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