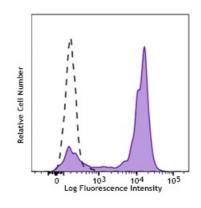
Brilliant Violet 711[™] anti-human CD64

Catalog # / Size:	2125205 / 25 tests 2125210 / 100 tests
Clone:	10.1
lsotype:	Mouse IgG1, к
Immunogen:	Human rheumatoid synovial fluid cells and fibronectin-purified monocytes.
Reactivity:	Human, Non-human primate, Other
Workshop Number:	VI MA36



Human peripheral blood monocytes were stained with CD64 (clone 10.1) Brilliant Violet 711™ (filled histogram) or mouse IgG1, κ Brilliant Violet 711™ isotype control (open histogram).

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 μl per million cells in 100 μl staining volume or 5 μl per 100 μl of whole blood.

Brilliant Violet 711[™] excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711[™] 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 (FcγRIA), but not CD64B (FcγRIB). Additional reported applications
(for the relevant formats) include: blocking of human IgG3 and murine IgG2a
binding to FcγRI^{2,5,6,11} and immunohistochemical staining of acetone-fixed
frozen tissue sections¹².

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

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)
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.