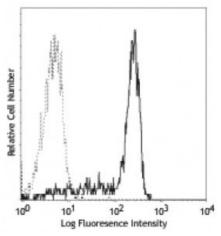
## **Product Data Sheet**

## **Biotin anti-human CD64**

Catalog # / Size:	2125020 / 100 μg
Clone:	10.1
Isotype:	Mouse IgG1, κ
Immunogen:	Human rheumatoid synovial fluid cells and fibronectin-purified monocytes.
<b>Reactivity:</b>	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	VI MA36
<b>Concentration:</b>	0.5



Human peripheral blood monocytes stained with 10.1 FITC

## **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 $\leq$ 2.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Clone 10.1 recognizes the EC3 epitope of CD64. 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 <sup>12</sup> .
Application References:	<ol> <li>McMichael A, <i>et al.</i> Eds. 1987. Leucocyte Typing III. Oxford University Press. New York.</li> <li>Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. p. 874.</li> <li>Kishimoto T, <i>et al.</i> Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.</li> <li>Holl V, <i>et al.</i> 2004. <i>J. Immunol.</i> 173:6274.</li> <li>Hober D, <i>et al.</i> 2002. <i>J. Gen. Virol.</i> 83:2169.</li> <li>Cho HJ, <i>et al.</i> 2005. <i>Arterioscler Thromb Vasc Biol.</i> 25:717. PubMed</li> <li>Bruhns P, <i>et al.</i> 2008. <i>Blood</i> 113:3716. PubMed</li> <li>Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC)</li> <li>Carter DL, <i>et al.</i> 1987. <i>Eur. J. Immunol.</i> 17:1453.</li> <li>Blom AB, <i>et al.</i> 2003. <i>Arthritis Rheum.</i> 48(4):1002-14. (IHC)</li> </ol>

**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

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 complex. It plays a role in antigen capture, phagocytosis of IgG/antigen complexes, and antibody-dependent cellular cytotoxicity (ADCC).

Antigen1. Hulett M, et al. 1994. Adv. Immunol. 57:1.References:2. van de Winkel J, et al. 1993. Immunol. Today 14:215.