

Product Data Sheet

Biotin anti-human CD64

Catalog # / Size: 305004 / 100 µg

Clone: 10.1

Isotype: Mouse IgG1, κ

Workshop Number: VI MA36

Immunogen: Human rheumatoid synovial fluid cells and fibronectin-purified monocytes.

Reactivity: Human, Cross-Reactivity: Chimpanzee, Baboon, Cynomolgus, Rhesus,

Capuchin Monkey, Squirrel Monkey

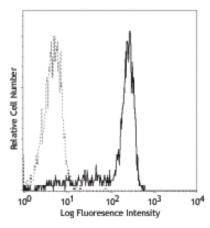
Preparation: The antibody was purified by affinity chromatography, and conjugated with

biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. Do not freeze.



Human peripheral blood monocytes stained with 10.1 FITC

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For

immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl 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 FcγRI^{2,5,6,11} and immunohistochemical staining of acetone-fixed

Application References: 1. McMichael A, et al. Eds. 1987. Leucocyte Typing III. Oxford University Press. New York. 2. Schlossman S, et al. Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. p. 874.

3. Kishimoto T, et al. Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.

4. Holl V, et al. 2004. J. Immunol. 173:6274. 5. Hober D, et al. 2002. J. Gen. Virol. 83:2169.

6. Cho HJ, et al. 2007. Physiol Genomics 149:60. 7. van Tits L, et al. 2005. Arterioscler Thromb Vasc Biol. 25:717. PubMed 8. Bruhns P, et al. 2008. Blood 113:3716. PubMed 9. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC) 10. Carter DL, et al. 1999. Cytometry 37:41. (FC) 11. Dougherty GJ, et al. 1987. Eur. J. Immunol. 17:1453.

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 IgĞ/antigen complexes, and antibody-dependent cellular cytotoxicity (ADCC).

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

frozen tissue sections.

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

Related Products: Product

Biotin anti-human CD16 PE anti-human CD32

Biotin Mouse IgG1, κ Isotype Ctrl

APC Streptavidin FITC Streptavidin PE Streptavidin PE/Cy5 Streptavidin Cell Staining Buffer

RBC Lysis Buffer (10X)

Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone 3G8 FUN-2 MOPC-21

FC FC, ICFC FC, ICFC FC, ICFC

Application

FC, ICFC FC, ICFC FC, ICC, ICFC FC. ICFC

FC, ICC, ICFC



