

Product Data Sheet

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Log Fluoresence Intensity

Human peripheral blood monocytes

103

10⁴

Purified anti-human CD64

Catalog # / Size: 305002 / 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.

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.

Applications:

Applications: FC - Quality tested IHC - Reported in the literature

stained with purified 10.1, followed by anti-mouse IgG FITC

100

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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 ≤ 1.0 μg per 10⁶ cells in 100 μl volume or 100 μl of

whole blood. 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

frozen tissue sections.

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

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

Related Products: Product

Clone Application FC, IHC, IP, CyTOF® FC, IHC Purified anti-human CD16 3G8 Purified anti-human CD32 FUN-2 FC, ICFC, ICC, IF, IHC, IP, WB MOPC-21 Purified Mouse IgG1, κ Isotype Ctrl

AKP Goat anti-mouse IgG (minimal x-reactivity) APC Goat anti-mouse IgG (minimal x-reactivity) Polv4053 ELISA, WB, IHC Poly4053 Biotin Goat anti-mouse IgG (minimal x-reactivity) FITC Goat anti-mouse IgG (minimal x-reactivity) Poly4053 FC, ELISA, IHC, IF, WB Poly4053 ELISA, IHC, WB HRP Goat anti-mouse IgG (minimal x-reactivity) Poly4053 PE Goat anti-mouse IgĞ (minimal x-reactivity) Polv4053

FC, ICC, ICFC Cell Staining Buffer RBC Lysis Buffer (10X) FC, ICFC



