Product Data Sheet

APC/Cy7 anti-human CD64

Catalog # / Size: 2125130 / 100 tests 2125125 / 25 tests

> Clone: 10.1

Isotype: Mouse IgG1, κ

Human rheumatoid synovial fluid cells Immunogen:

and fibronectin-purified monocytes.

Reactivity: Human

Preparation: The antibody was purified by affinity

> chromatography and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7

and unconjugated antibody.

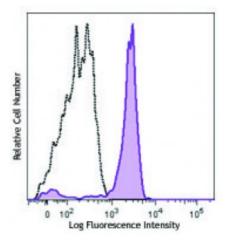
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Workshop **Number:** VI MA36

Concentration: Lot-specific



Human peripheral blood monocytes stained with anti-human CD64 (clone 10.1) APC/Cy7 (filled histogram) or mouse IgG1, k APC/Cv7 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 microL per million cells or 5 microL per 100 microL 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 FcvRI^{2,5,6,11} and immunohistochemical staining of acetone-fixed frozen

tissue sections¹².

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.

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.

12. 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 FcyRI 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.