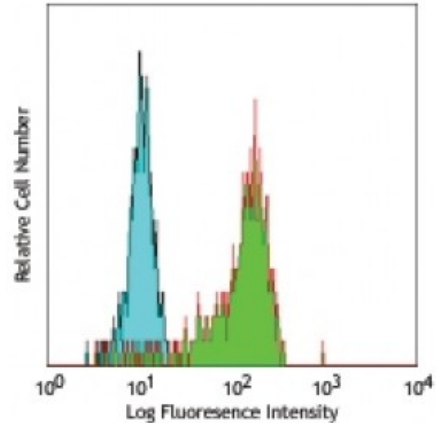


Purified anti-human CD64

Catalog # / Size: 2125010 / 100 µg
Clone: 10.1
Isotype: Mouse IgG1, κ
Immunogen: Human rheumatoid synovial fluid cells and fibronectin-purified monocytes.
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number: VI MA36
Concentration: 0.5



Human peripheral blood monocytes stained with purified 10.1, followed by anti-mouse IgG FITC

Applications:

Applications: Flow Cytometry, Immunohistochemistry

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 ≤ 1.0 microg per 10⁶ cells in 100 microL volume or 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 FcγRI^{2,5,6,11} and immunohistochemical staining of acetone-fixed frozen tissue sections¹².

- Application References:**
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 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](#)
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 10. Carter DL, *et al.* 1999. *Cytometry* 37:41. (FC)
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 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 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.