

PE anti-human CD64

Catalog # / Size: 305007 / 25 tests
305008 / 100 tests

Clone: 10.1

Isotype: Mouse IgG1, κ

Workshop Number: VI MA36

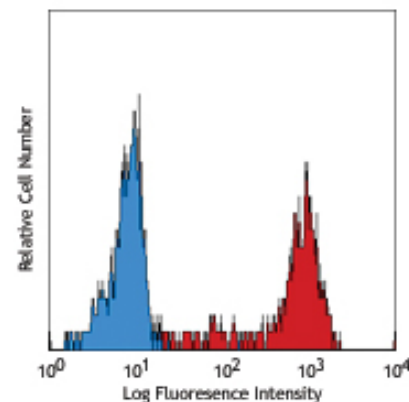
Immunogen: Human rheumatoid synovial fluid cells and fibronectin-purified monocytes.

Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus, Capuchin Monkey, Squirrel Monkey

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood monocytes stained with 10.1 PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

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 γ R1^{2,5,6,11} and immunohistochemical staining of acetone-fixed frozen tissue sections.

- Application References:**
- McMichael A, *et al.* Eds. 1987. Leucocyte Typing III. Oxford University Press. New York.
 - Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. p. 874.
 - Kishimoto T, *et al.* Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.
 - Höll V, *et al.* 2004. *J. Immunol.* 173:6274.
 - Hober D, *et al.* 2002. *J. Gen. Virol.* 83:2169.
 - Cho HJ, *et al.* 2007. *Physiol Genomics* 149:60.
 - van Tits L, *et al.* 2005. *Arterioscler Thromb Vasc Biol.* 25:717. PubMed
 - Bruhns P, *et al.* 2008. *Blood* 113:3716. PubMed
 - Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
 - Carter DL, *et al.* 1999. *Cytometry* 37:41. (FC)
 - Dougherty GJ, *et al.* 1987. *Eur. J. Immunol.* 17:1453.

Description: CD64 is a 72 kD single chain type I glycoprotein also known as Fc γ R1 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 References:**
- Hulett M, *et al.* 1994. *Adv. Immunol.* 57:1.
 - van de Winkel J, *et al.* 1993. *Immunol. Today* 14:215.

Related Products:

Product	Clone	Application
PE anti-human CD16	3G8	FC
PE anti-human CD32	FUN-2	FC
PE Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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