

Alexa Fluor® 488 anti-human CD64

Catalog # / Size: 305009 / 25 tests
305010 / 100 tests

Clone: 10.1

Isotype: Mouse IgG1, κ

Workshop Number: VI MA36

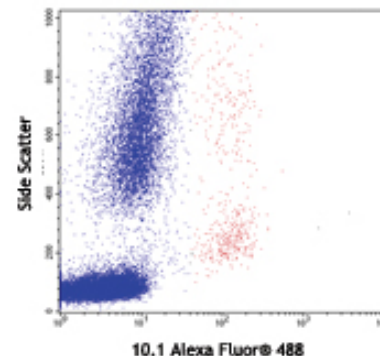
Immunogen: Human rheumatoid synovial fluid cells and fibronectin-purified monocytes.

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

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.

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 lymphocytes, monocytes, and granulocytes stained with 10.1 Alexa Fluor® 488

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 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

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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:

- 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.
- Holl 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 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 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
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Alexa Fluor® 488 Mouse IgG1, κ Isotype Ctrl (FC)	MOPC-21	FC, IF
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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