

LEAF™ Purified anti-human CD64

Catalog # / Size: 305015 / 50 µg
305016 / 500 µg

Clone: 10.1

Isotype: Mouse IgG1, κ

Workshop Number: VI MA36

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

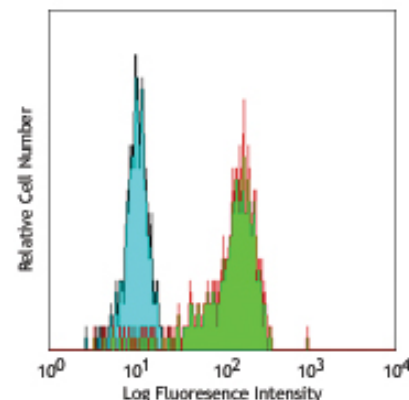
Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus, Capuchin Monkey, Squirrel Monkey

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



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

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 ≤0.5 µg per million 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:**
- 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
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)

Clone
MOPC-21

Application
FC, ICFC, WB, IP, ICC, IF, FA
FC, ICC, ICFC
FC, ICFC



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