

## FITC anti-human CD64

**Catalog # / Size:** 305005 / 25 tests  
305006 / 100 tests

**Clone:** 10.1

**Isotype:** Mouse IgG1,  $\kappa$

**Workshop Number:** VI MA36

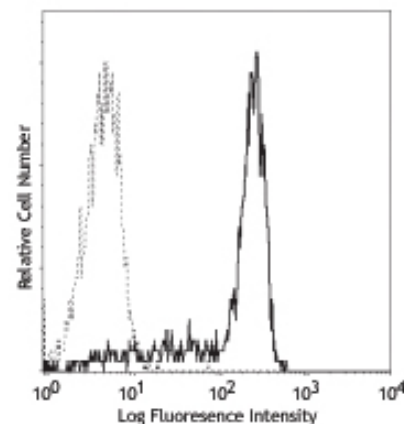
**Immunogen:** Human rheumatoid synovial fluid cells and fibronectin-purified monocytes.

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

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

**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 FITC

## 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  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ 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](http://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 $\gamma$ RI<sup>2,5,6,11</sup> 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 Fc $\gamma$ RI 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- $\gamma$  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

FITC anti-human CD16	<b>Clone</b>	
FITC anti-human CD32	3G8	
FITC Mouse IgG1, $\kappa$ Isotype Ctrl	FUN-2	
Cell Staining Buffer	MOPC-21	
RBC Lysis Buffer (10X)		
Human TruStain FcX™ (Fc Receptor Blocking Solution)		

### Clone

3G8  
FUN-2  
MOPC-21

### Application

FC  
FC  
FC, ICFC  
FC, ICC, ICFC  
FC, ICFC  
FC, ICC, ICFC



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