

Alexa Fluor® 647 anti-human CD11b

Catalog # / Size: 301319 / 25 tests

Clone: ICRF44

Isotype: Mouse IgG1, κ

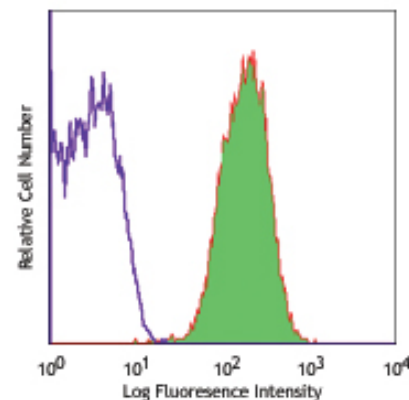
Workshop Number: IV M047

Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus, Common Marmoset, Swine (Pig, Porcine)

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

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 granulocytes stained with ICRF44 Alexa Fluor® 647

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

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

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Application Notes: The ICRF44 antibody inhibits heterotypic adhesion of granulocytes in response to fMLP. Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections, immunofluorescence microscopy⁵, and blocking of granulocyte activation^{3,4}. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 301312).

- Application References:**
- Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York.
 - Barclay N, *et al.* 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego.
 - Rezzonico R, *et al.* 2001. *Blood* 97:2932. (Block)
 - Marsik C, *et al.* 2003. *Shock* 20:493. (Block)
 - David A, *et al.* 2003. *J. Leukoc. Biol.* 74:551. (IF)
 - Charles N, *et al.* 2010. *Nat. Med.* 16:701. (FC) PubMed
 - Thurlow LR, *et al.* 2010. *Infect. Immun.* 128:1128. PubMed
 - Jadhav S, *et al.* 2001. *Blood* 167:5986. (Block)
 - Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
 - Sestak K, *et al.* 2007. *Vet. Immunol. Immunop.* 119:21.

Description: CD11b is a 165-170 kD type I transmembrane glycoprotein also known as α_M integrin, Mac-1, CR3, and C3bIR. CD11b non-covalently associates with integrin β_2 (CD18) and is expressed on granulocytes, monocytes/macrophages, dendritic cells, NK cells, and subsets of T and B cells. CD11b/CD18 is critical for the transendothelial migration of monocytes and neutrophils. It is also involved in granulocyte adhesion, phagocytosis, and neutrophil activation. CD11b/CD18 interacts with ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4, CD14, CD23, heparin, iC3b, fibrinogen, and Factor X.

Antigen References: 1. Stewart M, *et al.* 1995. *Curr. Opin. Cell Biol.* 7:690.

Related Products:

Product	Clone	Application
Cell Staining Buffer		FC, ICC, ICFC
Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)	MOPC-21	FC, IF
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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