

Product Data Sheet

Alexa Fluor® 488 anti-human CD11b

Catalog # / Size: 301317 / 25 tests
301318 / 100 tests

Clone: ICRF44

Isotype: Mouse IgG1, κ

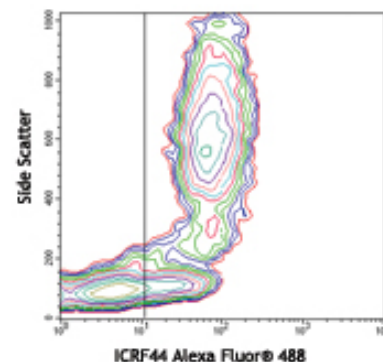
Workshop Number: IV M047

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® 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 ICRF44 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 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® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

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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:**
1. Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York.
 2. Barclay N, et al. 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego.
 3. Rezzonico R, et al. 2001. *Blood* 97:2932. (Block)
 4. Marsik C, et al. 2003. *Shock* 20:493. (Block)
 5. David A, et al. 2003. *J. Leukoc. Biol.* 74:551. (IF)
 6. Charles N, et al. 2010. *Nat. Med.* 16:701. (FC) PubMed
 7. Thurlow LR, et al. 2010. *Infect. Immun.* 128:1128. PubMed
 8. Jadhav S, et al. 2001. *Blood* 167:5986. (Block)
 9. Yoshino N, et al. 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
 10. 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
Cell Staining Buffer
Alexa Fluor® 488 Mouse IgG1, κ Isotype Ctrl (FC)
Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone

MOPC-21

Application

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



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