

PE/Cy7 anti-human CD11b

Catalog # / Size: 2106610 / 100 tests
2106605 / 25 tests

Clone: ICRF44

Isotype: Mouse IgG1, κ

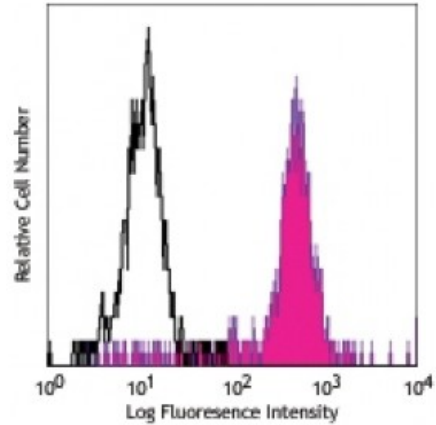
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: IV M047

Concentration: Lot-specific



Human peripheral blood monocytes stained with ICRF44 PE/Cy7

Applications:

Applications: Flow Cytometry

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 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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, stimulation of monocytes³, blocking of heterotypic PMN aggregation⁸, and blocking of granulocyte activation¹². This clone was tested in-house and does not work on formalin fixed paraffin-embedded (FFPE) tissue.

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. (Stim)
 4. Marsik C, *et al.* 2003. *Shock* 20:493. (FC)
 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. (FC) [PubMed](#)
 8. Jadhav S, *et al.* 2001. *J. Immunol.* 167:5986. (Block)
 9. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
 10. Sestak K, *et al.* 2007. *Vet. Immunol. Immunopathol.* 119:21. (FC)
 11. Wen T, *et al.* 2014. *J Immunol.* 192:5481. (FC) [PubMed](#)
 12. Sprong T, *et al.* 2003. *Blood* 102:3702. (Block)
 13. Cash JL, *et al.* 2013. *EMBO Rep.* 14:999. (FC) [PubMed](#)

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.