

## APC anti-human CD11b

**Catalog # / Size:** 2106750 / 100 µg  
2106545 / 25 tests

2106550 / 100 tests

**Clone:** ICRF44

**Isotype:** Mouse IgG1, κ

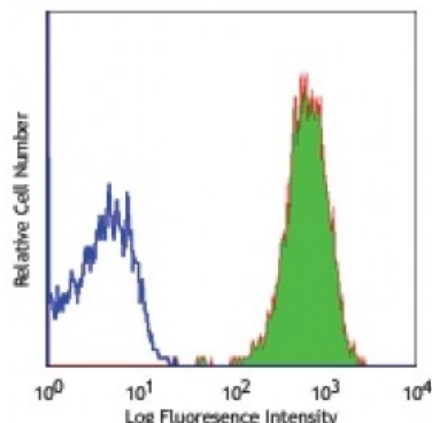
**Reactivity:** Human

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

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

**Workshop Number:** IV M047

**Concentration:** microg sizes: 0.2 mg/ml  
test sizes: lot-specific



Human peripheral blood granulocytes stained with ICRF44 APC

## Applications:

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining using the microg size, the suggested use of this reagent is ≤0.5 microg per million cells in 100 microL volume. **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 microscopy<sup>5</sup>, stimulation of monocytes<sup>3</sup>, blocking of heterotypic PMN aggregation<sup>8</sup>, and blocking of granulocyte activation<sup>12</sup>. 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/µg, Azide-Free, 0.2 µm 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](#)
  14. Larsson K, *et al.* 2015. *PNAS.* [PubMed](#)
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**Description:** CD11b is a 165-170 kD type I transmembrane glycoprotein also known as  $\alpha_M$  integrin, Mac-1, CR3, and C3biR. CD11b non-covalently associates with integrin  $\beta_2$  (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.