

# Product Data Sheet

## PE/Cy5 anti-human CD11b

**Catalog # / Size:** 301307 / 25 tests  
301308 / 100 tests

**Clone:** ICRF44

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

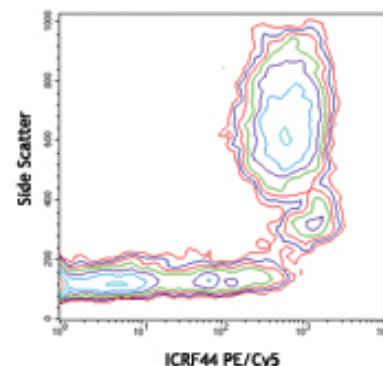
**Workshop Number:** IV M047

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

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.

**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 PE/Cy5

## 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:** 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>, and blocking of granulocyte activation<sup>3,4</sup>. The LEAF™ purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended for functional assays (Cat. No. 301312).

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

- 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  $\alpha_M$  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.

### Related Products:

Product	Clone	Application
PE anti-human CD11c	3.9	FC
PE anti-human CD11b (activated)	CBRM1/5	FC
PE/Cy5 anti-human CD11a	HI111	FC
PE/Cy5 anti-human CD18	TS1/18	FC
PE/Cy5 Mouse IgG1, $\kappa$ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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