



## PERFORMANCE DATA SHEET

1816

# Monoclonal anti-human CD11b/FITC\*

**mAb name/Clone:** ICRF44

**Isotype:** Mouse IgG1

**Immunogen:** Human Monocytes

**CATALOG#:** 159-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD11b ( $\alpha^M$  integrin) complexes with CD18 ( $\beta_2$  integrin) to form the complement receptor type 3 (CR3) heterodimer which binds to ICAM-1, fibrinogen, C3b, and coagulation factor X. CD11b expression is restricted to leukocytes, mainly to myeloid and NK cells. Antibody ICRF44 recognizes the integrin alpha M subunit (CD11b) of about 165 kd. Antibody ICRF44 blocks homotypic neutrophil and monocyte (FMLP induced) aggregation.

**References:** V. Mathotra, et al, (1986) Eur J Immunol **16**: 1117-1123. B.L. Myones, et al, (1988) J Clin Invest **82**: 640-651. Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 555-558, 560-562. H.R. Petty & R.F. Todd, (1993) J Leuk Biol **54**: 492-494. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1588-1590.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/Thawing is not recommended. Protect from light.

**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.25 mg/ml** with a Fluorescein/IgG molar ratio of 8.9.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared **human peripheral blood mononuclear cells** were washed and pre incubated 5 minutes with 20µl of 250µg/ml human IgG (To block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD11b/FITC at a **1:50** dilution (5 µg/ml). Cells were washed three times, fixed and analyzed by FACS. A net **8.8%** sub population of the cells stained positive with a mean shift of **1.5 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD11b antibody (Catalog #159-020).

\* **Research Use Only. Not for use in Diagnostic procedures.**