

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 10⁵-cell test)

INFORMATION: Human CD11b (α^M integrin) complexes with CD18 (β_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% NaN₃ (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 10⁵ 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 log₁₀** fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD11b antibody (Catalog #159-020).

**This Product is intended for Laboratory Research use only.*