

**PERFORMANCE DATA SHEET**

2348

**Monoclonal anti-human CD11b(CR3, Mac-1, integrin  $\alpha^M$ )/Biotin\***

**mAb name/Clone:** ICRF44

**Isotype:** Mouse IgG1

**Immunogen:** Human monocytes

**CATALOG#:** 159-030

**QUANTITY:** 100  $\mu$ g

**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** Human CD11b (alpha<sup>M</sup> 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 not recommended.

**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:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin.

Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared **human peripheral blood mononuclear cells** were washed and preincubated ~ 10 minutes with 20  $\mu$ l human IgG at 250  $\mu$ g/ml (to block non specific binding) after which they were incubated 45 minutes on ice with 80  $\mu$ l of anti-CD11b/Biotin at a concentration of **10  $\mu$ g/ml**. Cells were then washed twice and incubated 45 minutes with 2<sup>o</sup> reagent Streptavidin/R-PE (catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. A net **46%** sub population of the cells stained positive with a mean shift of **2.2 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/Biotin Isotype control (Catalog #278-030). Binding was blocked when cells were preincubated ~10 minutes with 20  $\mu$ l of 0.5 mg/ml unlabeled anti-CD11b antibody (Catalog #159-020).

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

**Binding of anti-CD11b/Biotin +SA/PE to human PBMC**

