## PERFORMANCE DATA SHEET

2410

## Monoclonal anti-human CD11b/R-PE\*



*mAb name/Clone:* ICRF44 *Isotype:* Mouse IgG1

Immunogen: Human Monocytes

CATALOG#: 159-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6ul of concentrated reagent per 5x10<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. Do not freeze! Protect from light.

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

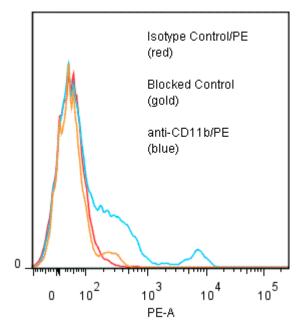
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography.

Antibody conjugate is at **0.5 mg/ml** with an  $A_{565}/A_{280}$  ratio of 2.98.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared **human peripheral white blood** cells were washed and pre incubated ~10 minutes with 20 μl human IgG at 250 μg/ml (to block non specific binding) after which they were incubated 45 minutes on ice with 80 μl of anti-CD11b/R-PE at a **1:50** dilution factor (10μg/ml). Cells were washed three times, fixed and analyzed by FACS. A net **19% sub population** of the cells stained positive with a mean shift of **1.86** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog # 278-050) 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).

## Binding of anti-CD11b/PE to human PBMC



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<sup>\*</sup>Research use only. Not for use in Diagnostic procedures.