

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 5×10^5 -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. 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% NaN₃ (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 A₅₆₅/A₂₈₀ ratio of 2.98.

PERFORMANCE: Five x 10⁵ 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 log₁₀** fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog # 278-050). 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.*

Binding of anti-CD11b/PE to human PBMC

