

PERFORMANCE DATA SHEET
2410

Monoclonal anti-human CD54 (ICAM-1)/R-PE*

CATALOG#: 205-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Human CD54 (ICAM-1) mediates cell adhesion by binding to the integrins CD11a/CD18 (LFA-1) and to CD11b/CD18 (Mac-1). CD54 expression on resting peripheral blood leukocytes is weak but is upregulated on activated T and B lymphocytes and on monocytes. Antibody 15.2 recognizes the D1 domain of the CD54 molecule of 90 kd. Antibody 15.2 inhibits CD54 binding to LFA-1.

References: A.R. Berendt, et al, (1992) Cell **68**: 71-81. I. Dransfield, et al, (1992) J Cell Biol **116**: 1527-1535. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1548-1550. P.L. Reilly, et al, (1995) J Immunol **155**: 529-532.

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 **0.25 mg/ml** with an A₅₆₅/A₂₈₀ ratio of 2.85.

PERFORMANCE: Five x 10⁵ cultured human **Raji** cells per tube 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-CD54/R-PE at a dilution factor of **1:50 (5 µg/ml)**. Cells were washed twice, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.06 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-CD54 antibody (Catalog #205-020).

**Research use only. Not for use in Diagnostic procedures.*

Binding of anti-CD54/PE to human Raji cells

