

PERFORMANCE DATA SHEET

2342

Monoclonal anti-human CD54(ICAM-1) Domain D2/R-PE *

mAb name/Clone: 8.4A6

Isotype: Mouse IgG1

Immunogen: Human endothelial cells

CATALOG#: 206-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl 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 monocytes. Antibody 8.4A6 recognizes the D2 domain of the CD54 molecule of 90 kd. Antibody 8.4A6 inhibits CD54 binding to LFA-1.

References: A.R. Berendt, et al, (1992) Cell **68**: 71-81. 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 **0.5 mg/ml** with an A₅₆₅/A₂₈₀ ratio of 2.84.

PERFORMANCE: Five x 10⁵ cultured **Raji** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD54/R-PE at a **1:50** dilution (10µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.41** 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 (8.4A6) antibody (Catalog #206-020).

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

Binding of anti-CD54(D2)/R-PE to human Raji cells

