

**PERFORMANCE DATA SHEET**  
2133

**Monoclonal anti-human CD54(ICAM-1)/FITC\***

**mAb name/Clone:** 8.4A6  
**Isotype:** Mouse IgG1  
**Immunogen:** Human endothelial cells

**CATALOG#:** 206-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-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. Freeze/Thawing is not recommended. 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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at approximately **0.25 mg/ml** with a Fluorescein/IgG molar ratio of 6.5.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **Raji** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD54/FITC at a **1:50** dilution (5 µg/ml). They were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.52 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040) at a similar concentration. 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/FITC to human Raji cells**

