## PERFORMANCE DATA SHEET <sup>1817</sup> *Monoclonal* anti-human CD54(ICAM-1)/Biotin\*

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

## CATALOG#: 206-030 QUANTITY: 100 µg

## **CONCENTRATION: 1.0 mg/ml**

**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<sup>o</sup>C*. Freeze/thawing not recommended.

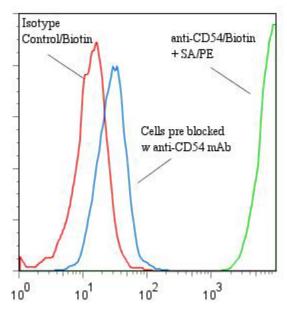
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**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: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column. Binding of anti-CD54/Biotin to human

**PERFORMANCE:** Five x  $10^5$  cultured **Raji** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD54(8.4A6)/Biotin at a concentration of **5 µg/ml**. Cells were then washed twice and incubated 45 minutes with  $2^{\circ}$  reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.66** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030) 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).

## Binding of anti-CD54/Biotin to human Raji cells



\*This Product is intended for Laboratory Research use only.