## PERFORMANCE DATA SHEET

1841



## Monoclonal anti-human CD54(ICAM-1) Domain D1/Biotin\*

*mAb name/Clone:* 15.2 *Isotype:* Mouse IgG1κ

Immunogen: Human monocytes

**CATALOG#: 205-030 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 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<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:\_\_\_\_\_

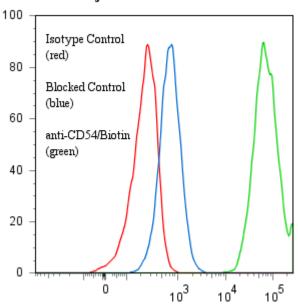
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**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.

**PERFORMANCE:** Five x  $10^5$  cultured **Raji** cells were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD54(D1)/Biotin at a concentration of **5**  $\mu$ g/ml. Cells were washed twice and incubated with  $2^0$  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 **2.51**  $\log_{10}$  fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030). Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-CD54(D1)antibody (Catalog #205-020).

\*Research use only. Not for use in Diagnostic Procedures.

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



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