

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°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% Na₃ (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 10⁵ cultured Raji cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD54(D1)/Biotin at a concentration of 5 µg/ml. Cells were washed twice and incubated with 2^o 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 log₁₀ 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 µl 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

