

PERFORMANCE DATA SHEET

2045

Monoclonal anti-human CD54 (ICAM-1) Domain D1*

mAb name/Clone: 15.2

Isotype: Mouse IgG1κ

Immunogen: Human monocytes

CATALOG#: 205-820

QUANTITY: 100 µg (Preservative Free)

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. *Open under aseptic conditions.* Freeze/Thawing is not recommended.

PRODUCT STABILITY: Product should retain activity for at least 6 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl. Product was 0.1 µm filtered and vialled under aseptic conditions.

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

PERFORMANCE: Five x 10⁵ cultured **Raji** cells were incubated 45 minutes on ice with 80 µl of anti-CD54 antibody at 5 µg/ml. Cells were washed twice and incubated with 2^o reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.22 log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog # 278-010).

* *Research Use Only. Not for use in Diagnostic procedures.*

Binding of anti-CD54 mAb +GAM/FITC to human Raji cells

