

**PERFORMANCE DATA SHEET**

1819

**Human CD54(ICAM-1)-muIg Fusion Protein\***

For maximal recovery of contents  
please quick spin vial before opening

**CATALOG#: 514-820 (Preservative-free)**

**QUANTITY: 25 µg**

**CONCENTRATION: 0.5 mg/ml**

**Molecular Structure:** A soluble dimeric fusion protein consisting of the extracellular (451aa) domain of human CD54 (including signal peptide) fused to murine IgG2a Fc (232aa). Predicted monomeric molecular weight of mature construct 76.1kd (amino acid composition only).

**Transfected Cell Line:** CHO

**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.

**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 is not recommended.

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

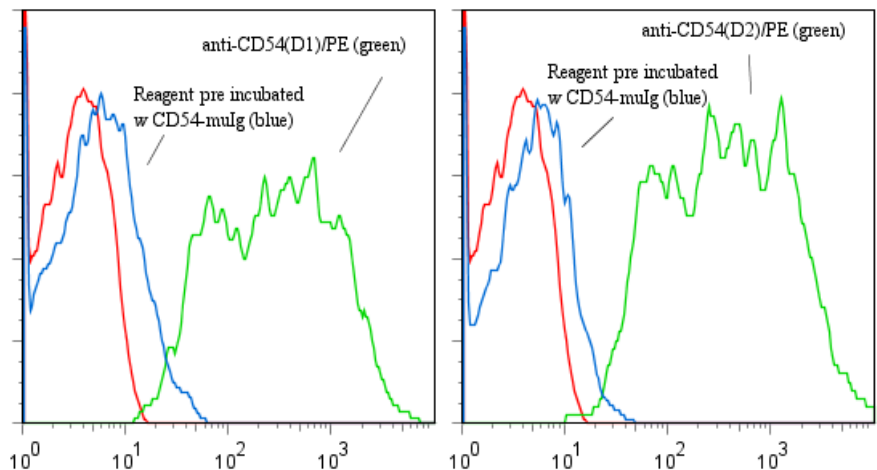
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

**PRODUCTION:** Recombinant protein from (low FBS containing) tissue culture supernatant of transfectants was purified using affinity and size exclusion chromatography. Product was 0.2 µm filtered and viald under aseptic conditions.

**PERFORMANCE:** CD54-muIg was reactive in an Enzyme Immunoassay utilizing a Goat anti-Mouse Ig coated plate for capture, an excess of Mouse IgG to block the plate, and anti-CD54/Biotin (Catalog #205-030) followed by Streptavidin/HRP and TMB/H<sub>2</sub>O<sub>2</sub> substrate chromagen for detection.

Pre incubation with a 10-fold excess of CD54-muIg blocked the binding of anti-CD54(Domain 1)/R-PE (Cat #205-050), and anti-CD54(Domain 2)/R-PE (Cat #206-050) to Raji cells.

**CD54-muIg Blocks anti-CD54 Domain 1 and 2/PE reagent binding to Raji cells**



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