PERFORMANCE DATA SHEET
1819

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

For maximal recovery of contents please quick spin vial before opening

CATALOG#: 514-020
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).

Transfectant 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^{o}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:_____

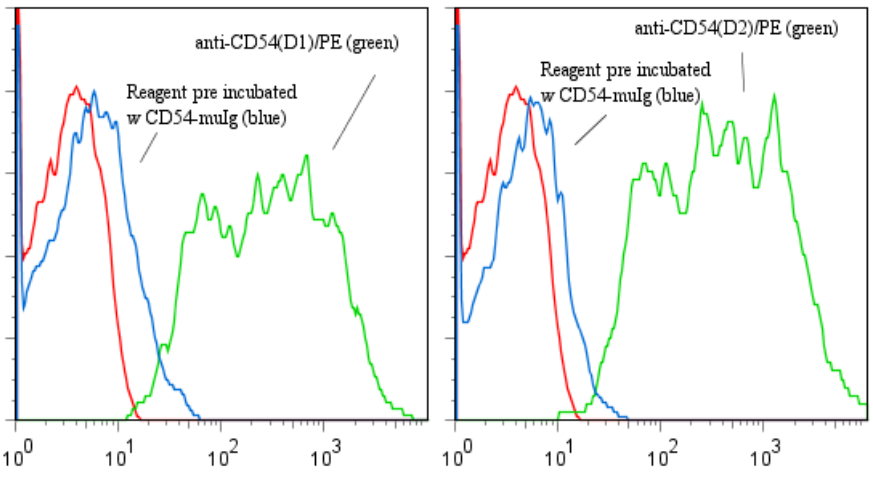
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Recombinant protein from (low FBS containing) tissue culture supernatant of transfectants was purified using affinity and size exclusion chromatography.

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_2O_2 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.

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