PERFORMANCE DATA SHEET
1819

For maximal recovery of contents please quick spin vial before opening

Human CD54(ICAM-1) muIg/Biotin*

CATALOG#: 514-030
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.

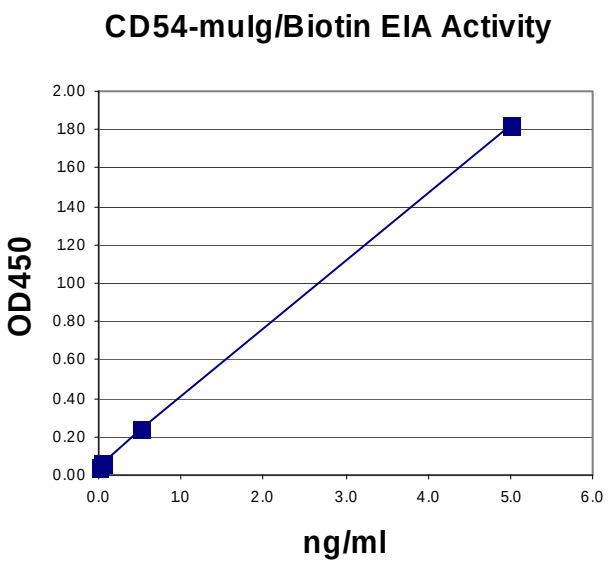
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

PRODUCTION: Fusion protein from (low FBS containing) tissue culture supernatant of transfectants was purified using affinity and size exclusion chromatography, and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Pre incubation with a 10-fold excess of unconjugated CD54-muIg (514-020) blocks binding of anti-CD54(Domain1)/R-PE (Cat #205-050), and anti-CD54(Domain 2)/R-PE (Cat #206-050) to Raji cells in Flow cytometry.
CD54-muIg/Biotin was detectable in EIA at **0.5 ng/ml** using anti-CD54(D1) (Cat #205-020) coated plates followed by Streptavidin/HRP and TMB/H_2O_2 substrate chromagen for detection.

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



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