

PERFORMANCE DATA SHEET

2139

Monoclonal anti-human CD44/R-PE *

mAb name/Clone: BU75

Isotype: Mouse IgG1

Immunogen: T cell line (from patient with CLL)

CATALOG#: 352-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5×10^5 -cell test)

INFORMATION: Human CD44 molecules appear to serve as lymphocyte adhesion molecules with numerous functions in extracellular matrix binding, cell migration, hemopoiesis, and lymphocyte homing. Antibody BU75 recognizes epitope 2 of the CD44 molecule which interacts with hyaluronate (HA)mediating binding of lymphocytes to high endothelial venules. Antibody BU75 blocks binding of HA to CD44.

References: B.F. Hynes, et al, (1993) Adv Immunol **54**: 271-335. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1713-1742. H.X. Liao, et al, (1995) J Immunol **155**: 3938-3945.

STORAGE CONDITIONS: Store at 2 - 5°C. Do not freeze! Protect from light.

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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant, and conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at 500 µg/ml.

PERFORMANCE: Five $\times 10^5$ cultured human Molt-4 cells were incubated 45 minutes on ice with 80 µl of product at a dilution factor of 1:50 (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.0 log₁₀ fluorescent units when compared to a Mouse IgG1/PE negative control (Catalog # 278-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD44(BU75) antibody (Catalog #352-020).

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

R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

Binding of anti-CD44/PE to human Molt-4 cells

