

PERFORMANCE DATA SHEET

2139

Monoclonal anti-human CD44/R-PE *

mAb name/Clone: BU52

Isotype: Mouse IgG1

Immunogen: Human peripheral myeloma cells

CATALOG#: 193-050

QUANTITY: 120 tests

VOLUME IN VIAL: 200 µl

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-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 BU52 recognizes epitope 1 of the CD44 molecule, and is useful for Western Blot (4).

References 1) Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) 619-627. 2) D. J. Anstee, et al, (1991) Immunology **74**: 197-205. 3) F. Hynes, et al, (1993) Adv Immunol **54**: 271-335. H.X. Liao, et al, (1995) J Immunol **155**: 3938-3945. 4) I. Okamoto, et al, (1999) J Biol Chem **274**: 25525-25534.

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 **250 µg/ml**.

PERFORMANCE: Five x 10⁵ cultured **Molt-4** human tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD44/R-PE at a **1:50** dilution (5µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.9 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(BU52) antibody (Catalog #193-020).

* **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

