## 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 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD44 molecules appear to serve as lymphocyte adhesion molecules with numerous functions in extracellular matrix binding, cell migration, hemopoisis, 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  $2 - 5^{\circ}C$ . Do not freeze! Protect from light.

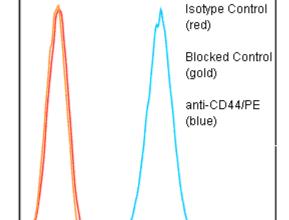
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (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  $10^5$  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**  $\log_{10}$  fluorescent units when compared to a Mouse IgG1/PE negative control (Catalog #278-050). 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.



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Comp-PE-A

10<sup>5</sup>

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Binding of anti-CD44/PE to human

Molt-4 cells

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