## 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 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 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% NaN<sub>3</sub> (as a preservative).

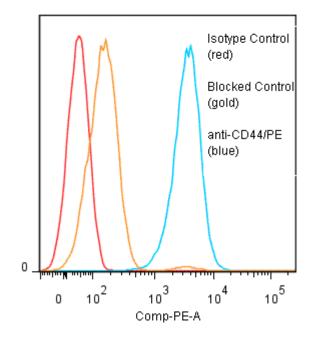
**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant, and conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size

exclusion chromatography. Antibody conjugate is at **500** µg/ml.

**PERFORMANCE:** Five x 10<sup>5</sup> 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** log<sub>10</sub> 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



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