

## PERFORMANCE DATA SHEET

1746

### *Monoclonal anti-human CD44/Biotin\**

**mAb name/Clone:** BU75

**Isotype:** Mouse IgG2a

**Immunogen:** Human tonsil germinal center B cell enriched

**CATALOG#:** 352-030

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**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.* Freeze/thawing not recommended.

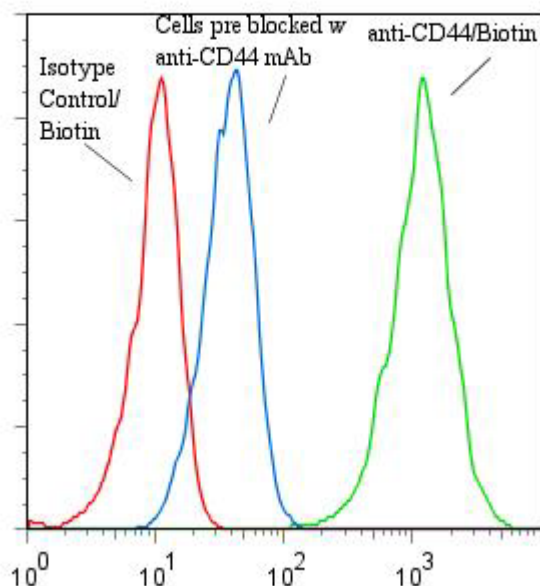
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared human peripheral blood leukocytes were washed and incubated 45 minutes on ice with 80 µl of anti-CD44/Biotin at 5 µg/ml. Cells were then washed twice and incubated 45 minutes with 2<sup>o</sup> reagent Streptavidin R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.05 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030) at a similar concentration. This shift was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD44(BU75) antibody (Catalog #352-020).

#### Binding of anti-CD44(BU75)/Biotin +SA/PE to human Molt-4 cells



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

**Ancell Corporation P.O. Box 87 243 Third Street North Bayport, MN 55003-0087 USA**  
**Phone: Toll free 800-374-9523 or 651-439-0835 Fax: 651-439-1940**