

## PERFORMANCE DATA SHEET

1816

# Monoclonal anti-human CD44/Biotin\*

**mAb name/Clone:** BU52

**Isotype:** Mouse IgG1

**Immunogen:** Human peripheral myeloma cells

**CATALOG#:** 193-030

**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 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. 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> cultured **Molt-4** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD44/Biotin at a concentration of 5 µg/ml. Cells were then washed twice and incubated 45 minutes with 2<sup>o</sup> reagent Streptavidin R-Phycoerythrin (Catalog #253-050) as described above, after which they 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/Biotin negative control (Catalog #278-030) 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).

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

**Binding of anti-CD44/Biotin (clone BU52)  
+ SA/PE to human Molt-4 cells**

