

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% NaN₃ (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 10⁵ 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^o 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 log₁₀ fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030). 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).

* Research Use Only. Not for use in Diagnostic procedures.

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

