

PERFORMANCE DATA SHEET

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Monoclonal anti-human CD44 /FITC***mAb name/Clone:** BU75**Isotype:** Mouse IgG2a**Immunogen:** Human tonsil germinal center B cell enriched**CATALOG#:** 352-040**QUANTITY:** 120 tests**VOLUME IN VIAL:** 100 μ l**WORKING DILUTION:** 1:100 (or use 0.8 μ l of concentrated stock per 5×10^5 -cell test)

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 is not recommended. 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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.5 mg/ml** with a Fluorescein/IgG molar ratio of 9.1.

PERFORMANCE: Five $\times 10^5$ cultured Molt-4 human tumor cells were washed and incubated 45 minutes on ice with 80 μ l of anti-CD44(clone BU75)/FITC at a 1:50 dilution (5 μ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.17 log₁₀** fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog # 281-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with anti-CD44(BU75) antibody (Catalog #352-020).

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

Binding of anti-CD44/FITC to human Molt-4 cells

