

PERFORMANCE DATA SHEET

2121

Monoclonal anti-human CD38/FITC**mAb name/Clone:* AT1*Isotype:* Mouse IgG1 κ *Immunogen:* Human T cell tumor cells: CEM**CATALOG#:** 187-040**QUANTITY:** 120 tests**VOLUME IN VIAL:** 0.2ml**WORKING DILUTION:** 1:50 (or use 1.6 μ l of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Human CD38 is a type II transmembrane glycoprotein with bifunctional ectoenzyme activity catalyzing both synthesis and hydrolysis of cyclic ADP ribose (1). CD38 is involved in lymphocyte activation and adhesion to endothelium and has recently been identified as a counter-receptor of CD31 (2). Antibody AT1 recognizes the CD38 molecule of 45 kd.

References: 1.) Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 151-157.
2.) S. Deaglio, et al, (1998) J Immunol 160:395-402.

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 9.5.

PERFORMANCE: Five x 10⁵ cultured **Raji** cells were washed and incubated 45 minutes on ice with 80 μ l of anti-CD38/FITC at a **1:50** dilution (10 μ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.91** log₁₀ fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 μ l of 0.5 mg/ml anti-CD38 antibody (Catalog #187-020).

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

Binding of anti-CD38/FITC to human Raji cells

