

PERFORMANCE DATA SHEET

2314

Monoclonal anti-human CD39/FITC*

mAb name/Clone: BU61

Isotype: Mouse IgG1

Immunogen: Human WM-1 (Waldenström's macroglobulinemia) cell line

CATALOG#: 188-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (1.6µl stock/5 x 10⁵ cell test)

INFORMATION: Human CD39 is found on most mature B cells, activated NK cells and activated T cells. CD39 has homology to the N- myc family of proteins and was recently cloned. Antibody BU61 recognizes the CD39 molecule of approximately 80 kd.

References: J.R. Volland, et al, (1992) Proc Natl Acad Sci USA **89**: 10425-10429. C.R. Maliszewski, et al, (1994) J Immunol **153**: 3574-3583. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 383-385.

STORAGE CONDITIONS: Store at 2 - 5°C. Freeze/Thawing is 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: 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: mAb molar ratio of 10.2.

PERFORMANCE: Five x 10⁵ ficoll prepared **human peripheral blood mononuclear cells** were washed and incubated 45 minutes on ice with 80 µl of anti-CD39/FITC at a **1:50** dilution (10ug/ml). Cells were washed three times, fixed and analyzed by FACS. A net **34%** sub population of the cells stained positive with a mean shift of **1.08 log₁₀** fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD39 antibody (Catalog #188-020).

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

Binding of anti-CD39/FITC to human PBMC

