

PERFORMANCE DATA SHEET

1817

Monoclonal anti-human CD39*

mAb name/Clone: BU61

Isotype: Mouse IgG1

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

CATALOG#: 188-020

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

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 has been 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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin.

PERFORMANCE: Five x 10⁵ ficoll prepared human **peripheral blood mononuclear cells** were washed and pre incubated ~5 minutes with 20µl of 300 µg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD39 at **5 µg/ml**. Cells were washed twice and incubated with 2^o reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. A **15%** sub population of the cells stained positive with a mean shift of **1.25** log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010).

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

Binding of anti-CD39 mAb +GAM/FITC to human PBMC

