## PERFORMANCE DATA SHEET

1817

## Monoclonal anti-human CD39/R-PE\*



*mAb name/Clone:* BU61 *Isotype:* Mouse IgG1

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

CATALOG#: 188-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-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. Voland, 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  $2 - 5^{\circ}C$ . Do not freeze! Protect from light.

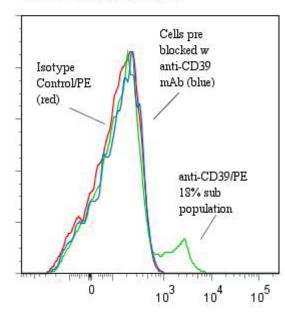
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an  $A_{565}/A_{280}$  ratio of 2.95.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared **human peripheral blood mononuclear cells** were washed and pre incubated 5 minutes with 20 μl of 300μg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 μl of anti-CD39/R-PE at a **1:50** dilution (10μg/ml). Cells were washed three times, fixed and analyzed by FACs. A net **18%** sub population of the cells stained positive with a mean shift of **1.22** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog # 278-050). Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD39 antibody (Catalog #188-020).

## Binding of anti-CD39/PE to human PBMC (lymphocyte gate)



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<sup>\*</sup> Research Use Only. Not for use in Diagnostic procedures.