

**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°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<sub>565</sub>/A<sub>280</sub> 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) at a similar concentration. 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/PE to human PBMC (lymphocyte gate)**

