

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 5×10^5 -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% NaN₃ (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 A₅₆₅/A₂₈₀ ratio of 2.95.

PERFORMANCE: Five $\times 10^5$ 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 log₁₀ 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).

***This Product is intended for Laboratory Research use only.**

R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

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

