

PERFORMANCE DATA SHEET

1817

Monoclonal anti-human CD39/Biotin*

mAb name/Clone: BU61

Isotype: Mouse IgG1

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

CATALOG#: 188-030

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 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. Freeze/thawing 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: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10⁵ ficoll prepared human peripheral blood lymphocytes cells were washed and pre incubated 5 minutes with 20 µl of 250 µg/ml human IgG (to block nonspecific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD39/Biotin at 5 µg/ml. Cells were washed twice and incubated with 2^o reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. A net 39% subpopulation of the cells stained positive with a mean shift of 1.41 log₁₀ fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030) 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.*

Binding of anti-CD39/Biotin to ficolled human PBL

