

**PERFORMANCE DATA SHEET**

2140

**Monoclonal anti-human CD59 (Protectin)/Biotin\***

**mAb name/Clone:** BRA-10G

**Isotype:** Mouse IgG1κ

**Immunogen:** Human K562 tumor cells

**CATALOG#:** 211-030

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** Human CD59 is a GPI anchored molecule that protects cells from complement-mediated lysis (1). Studies are progressing to determine the regulatory mechanism for CD59 expression (2). Antibody BRA-10G reacts with the 18-22 kd CD59 molecule.

**References:** (1) Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford (1995) p. 1476-1477. (2) M.H. Holguin, et al, (1996) J Immunol 157: 1659-1668.

**STORAGE CONDITIONS:** *Store at 2 - 5°C.* Freeze/thawing not recommended.

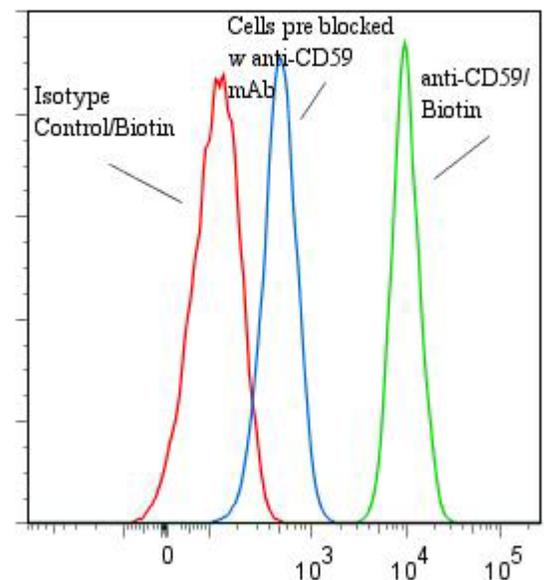
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (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 10<sup>5</sup> cultured human HPB-MLT cells were washed and pre incubated 5 minutes with 20 µl of 250 µg/ml human IgG (To block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD59/Biotin at 10 µg/ml. Cells were washed twice and incubated with 2<sup>o</sup> reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.9 log<sub>10</sub> 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-CD59 antibody (Catalog #211-020).

**Binding of anti-CD59/Biotin + SA/PE to human HPB-MLT cells**



*\*Research use only. Not for use in Diagnostic procedures.*