## PERFORMANCE DATA SHEET 2509 Monoclonal anti-human CD29 (β1 integrin)/Biotin\*



*mAb name/Clone:* **4B7R** *Isotype:* Mouse IgG1κ *Immunogen:* Human ocular melanoma cell line, V+B2

CATALOG#: 178-030 QUANTITY: 100 µg

## **CONCENTRATION: 1.0 mg/ml**

**INFORMATION:** Human CD29 is the beta subunit of an integrin family of molecules expressed on diverse cell types which function as the major receptors for extracellular matrix and as cell-cell adhesion molecules. CD29 can form heterodimer pairs with at least nine different alpha subunits. Antibody 4B7R recognizes the CD29 integrin subunit.

References: Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1612-1613.

**STORAGE CONDITIONS:** Store at 2 - 5<sup>o</sup>C. Freeze/thawing not recommended.

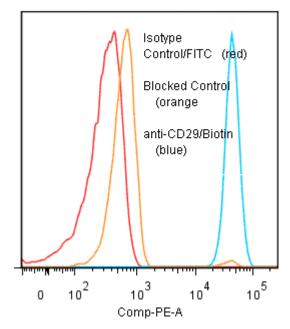
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**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  $10^5$  cultured **Nalm-6** cells were incubated 45 minutes on ice with 80 µl of anti-human CD29/Biotin at **10 µg/ml**. Cells were washed twice and incubated with  $2^{\circ}$  reagent, Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. The cells stained positive with a mean shift of **2.12** 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-CD29 antibody (Catalog #178-020).

## Binding of anti-CD29/Biotin +SA/PE to human Nalm-6 cells



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