

PERFORMANCE DATA SHEET
2509

Monoclonal anti-human CD29 (β 1 integrin)/Biotin*

mAb name/Clone: 4B7R

Isotype: Mouse IgG1 κ

Immunogen: Human ocular melanoma cell line, V+B2

CATALOG#: 178-030

QUANTITY: 100 μ g

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°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 cultured **Nalm-6** cells were incubated 45 minutes on ice with 80 μ l of anti-human CD29/Biotin at **10 μ g/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. The cells stained positive with a mean shift of **2.12 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 μ l of 0.5 mg/ml anti-CD29 antibody (Catalog #178-020).

* *Research Use Only. Not for use in Diagnostic procedures.*

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

