

PERFORMANCE DATA SHEET

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Monoclonal anti-human CD29 ($\beta 1$ integrin)/R-PE ***mAb name/Clone:** 4B7R**Isotype:** Mouse IgG1 κ **Immunogen:** Human ocular melanoma cell line, V+B2**CATALOG#:** 178-050**QUANTITY:** 120 tests**VOLUME IN VIAL:** 0.2 ml**WORKING DILUTION:** 1:50 (or use 1.6 μ l of concentrated stock per 5 x 10⁵-cell test)

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. 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 2.1.

PERFORMANCE: Five x 10⁵ ficoll prepared human PBL per tube were pre incubated ~10 minutes with 20 μ l of 300 μ g/ml human IgG (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80 μ l of anti-CD29/PE at a dilution factor of 1:50 (10 μ g/ml). Cells were washed three times, fixed and analyzed by FACS using a lymphoid gate. Cells stained positive with a mean shift of 1.44 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 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/PE to human PBL

