## PERFORMANCE DATA SHEET

2321

## Ancell

## Monoclonal anti-human CD29 (β1 integrin)/R-PE\*

*mAb name/Clone:* **4B7R** *Isotype:* Mouse IgG1κ

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 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-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:\_\_\_\_\_

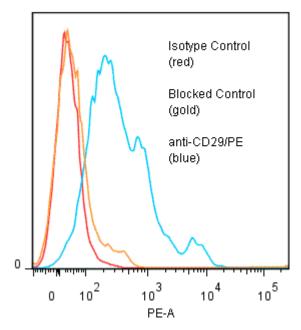
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**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  $A_{565}/A_{280}$  ratio of 2.1.

**PERFORMANCE:** Five x  $10^5$  ficoll prepared human **PBL** per tube were pre incubated ~10 minutes with 20 μl of 300 μg/ml human IgG (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80 μl of anti-CD29/PE at a dilution factor of **1:50** (10 μg/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**  $\log_{10}$  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 μl 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



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