

# PERFORMANCE DATA SHEET

2310

## Monoclonal anti-human CD29 ( $\beta 1$ integrin)/FITC\*

**mAb name/Clone:** 4B7R

**Isotype:** Mouse IgG1 $\kappa$

**Immunogen:** Human ocular melanoma cell line, V+B2

**CATALOG#:** 178-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2ml

**WORKING DILUTION:** 1:50 (or use 1.6ul of concentrated stock per  $5 \times 10^5$ -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. Freeze/Thawing is 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:** Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at 0.5 mg/ml with a Fluorescein/IgG molar ratio of 7.1.

**PERFORMANCE:** Five  $\times 10^5$  cultured Nalm-6 cells were incubated 45 minutes on ice with 80 ul of anti-CD29/FITC at a 1:50 dilution (10 ug/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.19 log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040). Binding was blocked when cells were pre incubated 10 minutes with 20 ul of 0.5 mg/ml anti-CD29 antibody (Catalog #178-020).

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

**Binding of anti-CD29/FITC to human Nalm-6 cells**

