PERFORMANCE DATA SHEET
2310

Monoclonal anti-human CD29 (β1 integrin)/FITC*

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

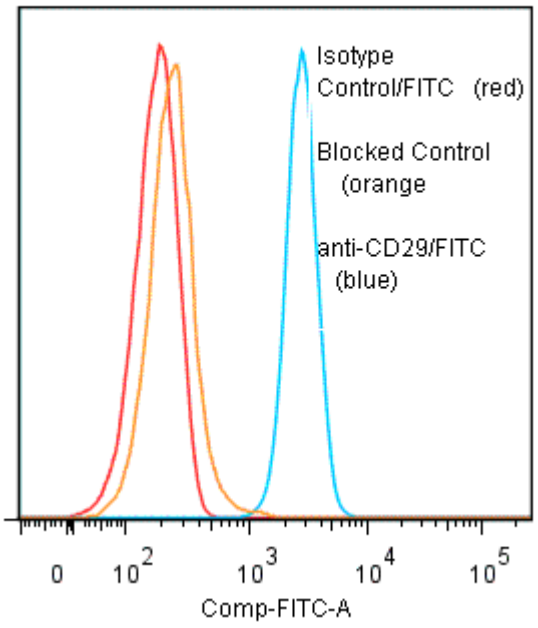
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN_3 (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 x 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** $\log_{10}$ fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 ul of 0.5 mg/ml anti-CD29 antibody (Catalog #178-020).

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



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