

PERFORMANCE DATA SHEET
2023

Monoclonal anti-human CD29 (β1 integrin)*

mAb name/Clone: 4B7R

Isotype: Mouse IgG1κ

Immunogen: Human ocular melanoma cell line, V+B2

CATALOG#: 178-020

QUANTITY: 100 µg

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 is not recommended.

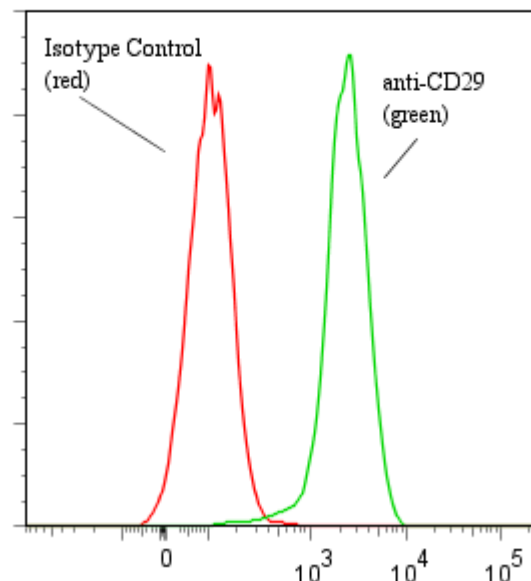
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

PERFORMANCE: Five x 10⁵ cultured human HPB-MLT cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD29 antibody at a concentration of 10 µg/ml. Cells were washed twice and incubated with 2^o reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.3 log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010).

Binding of anti-CD29 mAb + GAM/FITC to human HPB-MLT cells



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