

PERFORMANCE DATA SHEET

3325

Monoclonal anti-human CD51 (alpha v integrin)/R-PE*

mAb name/Clone: P2W7R

Isotype: Mouse IgG1κ

Immunogen: Human ocular melanoma cell line (V+B2)

CATALOG#: 202-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6μl of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Human CD51 is an integrin alpha v chain which can associate with five different integrin beta chains to form various adhesion molecules. The alpha v beta 3 integrin complex binds vitronectin at the RGD sequence and also can bind to fibrinogen, von Willebrand factor, thrombospondin, fibronectin, osteopontin and collagen. Antibody P2W7 recognizes the alpha v molecule of 160 kd.

References: R.O. Hynes (1992) Cell 69: 11-25. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford (1995) p. 1663-1664.

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 2.77.

PERFORMANCE: Five x 10⁵ cultured **UM-SCC** (squamous cell carcinoma) cells were harvested by trypsinization, washed and preincubated 5 minutes with 20 μl of 250μg/ml human IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80 μl of anti-CD51/R-PE at a **1:50** dilution (10μg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.35 log₁₀** fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD51 antibody (Catalog #202-020).

**Research use only. Not for use in Diagnostic procedures.*

Binding of anti-CD51/PE to human UM-SCC cells

