PERFORMANCE DATA SHEET 3325 Monoclonal anti-human CD51 (alpha v integrin)/FITC*

mAb name/Clone: **P2W7R** *Isotype:* Mouse IgG1k *Immunogen:* Human ocular melanoma cell line (V+B2)

CATALOG#: 202-040VOLUME IN VIAL: 0.2mlQUANTITY: 120 testsVOLUME IN VIAL: 0.2mlWORKING 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^oC*. 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% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was reacted with FITC.

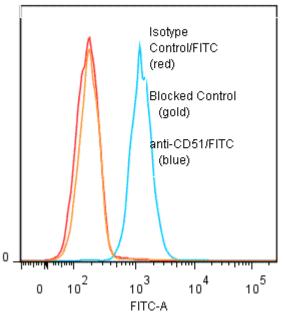
Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC

conjugate is at **0.5 mg/ml** with a Fluorescein/IgG molar ratio of 6.0.

PERFORMANCE: Five x 10^5 cultured **UM-SCC** (squamous cell carcinoma) cells were harvested by trypsinization, washed and pre incubated 5 minutes with 20 μ l of 250 μ g/ml human IgG (to block nonspecific binding), after which they were incubated 45 minutes on ice with 80 μ l anti-CD51/FITC at a **1:50** dilution (10 μ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.87** log₁₀ 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 μ l of 0.5 mg/ml anti-CD51 antibody (Catalog #202-020).

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

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



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