

PERFORMANCE DATA SHEET

3325

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

mAb name/Clone: P2W7R

Isotype: Mouse IgG1κ

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

CATALOG#: 202-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5×10^5 -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. 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% Na₂S₂O₃ (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 $\times 10^5$ cultured UM-SCC (squamous cell carcinoma) cells were harvested by trypsinization, washed and pre incubated 5 minutes with 20 µl of 250 µg/ml human IgG (to block nonspecific binding), after which they were incubated 45 minutes on ice with 80 µl anti-CD51/FITC at a 1:50 dilution (10 µg/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 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/FITC to human UM-SCC cells

