

## PERFORMANCE DATA SHEET

1817

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

**mAb name/Clone:** P2W7R

**Isotype:** Mouse IgG1 $\kappa$

**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 1.6 $\mu$ l of concentrated stock per 5 x 10<sup>5</sup>-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% NaN<sub>3</sub> (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 A<sub>565</sub>/A<sub>280</sub> ratio of 2.77.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **UM-SCC** (squamous cell carcinoma) cells were harvested by trypsinization, washed and preincubated 5 minutes with 20  $\mu$ l of 250 $\mu$ g/ml human IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80  $\mu$ l of anti-CD51/R-PE at a **1:50** dilution (10 $\mu$ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.86 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-CD51 antibody (Catalog #202-020).

**\*This Product is intended for Laboratory Research use only.**

R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

**Binding of anti-CD51/R-PE to human cell lines**

