PERFORMANCE DATA SHEET 1841 Monoclonal anti-human CD51 (alpha v integrin)/Biotin*

mAb name/Clone: **P2W7R** *Isotype:* Mouse IgG1κ *Immunogen:* Human ocular melanoma cell line (V+B2)

CATALOG#: 202-030 QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

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 not recommended.

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

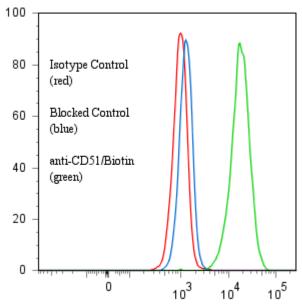
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10^5 cultured **UM-SCC** (squamous cell carcinoma) cells were harvested by trypsinization, washed and pre incubated 5 minutes with 20 µl of 250µg/ml human IgG (to block nonspecific binding), after which they were incubated 45 minutes on ice with 80 µl of anti-CD51/Biotin at **10 µg/ml**. Cells were washed twice and incubated with 2° reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.27** log₁₀ fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD51 antibody (Catalog #202-020).

*This Product is intended for Laboratory Research use only.

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



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