

**PERFORMANCE DATA SHEET**

2134

***Monoclonal anti-human CD49b (VLA-2)/R-PE\****

***mAb name/Clone:*** HAS6

***Isotype:*** Mouse IgG2ak

***Immunogen:*** Human cultured keratinocytes

**CATALOG#:** 155-050

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD49b is an integrin alpha 2 subunit that forms a heterodimer with beta 1 integrin and functions as an adhesion molecule. Antibody HAS6 recognizes the alpha 2 integrin subunit.

**References:** M.L. Tenchini, et al, (1993) Cell Adhesion and Comm 1: 55-66. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1615-1616.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Do not freeze! Protect from light.

**PRODUCT STABILITY:** Product should retain activity for at least 6 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 2.35.

**PERFORMANCE:** Five x 10<sup>5</sup> 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-CD49b/R-PE at a **1:50** dilution. Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.06 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog # 281-050) at a similar concentration. Binding was blocked when pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD49b antibody (Catalog #155-020).

**\* Research Use Only. Not for use in Diagnostic procedures.**  
R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

**Binding of anti-CD49b/PE to human UM-SCC cells**

