

PERFORMANCE DATA SHEET

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Monoclonal anti-human CD49b (VLA-2)***mAb name/Clone:** HAS6**Isotype:** Mouse IgG2ak**Immunogen:** Human cultured keratinocytes**CATALOG#:** 155-030**QUANTITY:** 100 µg**CONCENTRATION:** 1.0 mg/ml**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.* 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 10⁵ cultured **UM-SCC** (squamous cell carcinoma) cells were harvested by trypsinization, washed and preincubated 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/Biotin at **10 µg/ml**. Cells were washed twice and incubated with 2^o 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 **1.79 log₁₀** fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog # 281-030) at a similar concentration. Binding was blocked when cells were 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.****Binding of anti-CD49b/Biotin +SA/PE to human UM-SCC cells**