**PERFORMANCE DATA SHEET**
**1825**

# *Monoclonal* anti-human CD104 (β4 Integrin)/Biotin*

***mAb name/Clone:*** **UMA9**
***Isotype:*** Mouse IgG2a
***Immunogen:*** UM-SCC-1, human squamous cell carcinoma

**CATALOG#: 325-030**
**QUANTITY: 100 µg** **CONCENTRATION: 1.0 mg/ml**

**INFORMATION:** Human CD104 (β4 integrin) associates with the α6 integrin chain and binds to laminin and epiligrin and likely has cell-cell adhesion functions. CD104 is involved in signal transduction. Antibody UMA9 recognizes the CD104 molecule of about 205 kd and partially blocks laminin binding.
***References:*** K.A. Kimmel & T.E. Carey, (1986) Cancer Res **46:** 3614-3623. C VanWaes, et al, (1991) Cancer Res **51:** 2395-2402. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1655-1663, 1667-1668. F. Mainiero, et al, (1995) EMBO J **14:** 4470-4481.

**STORAGE CONDITIONS:** ***Store at 2 - 5°C***. Freeze/thawing not recommended.

**PRODUCT STABILITY:** Product should retain activity for at least 6 months after shipping date when stored as recommended. Ship Date:_____

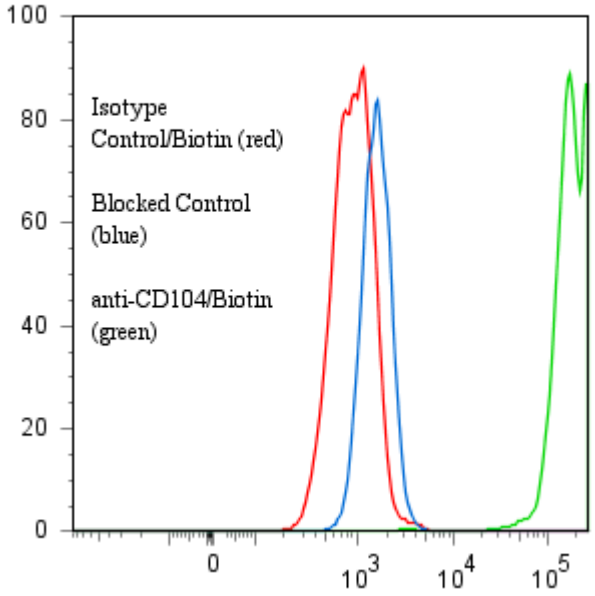
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% $NaN_3$ (as a preservative).

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. It was then conjugated to NHS-Biotin. Antibody conjugate was separated from free biotin using a desalting column.

**PERFORMANCE:** Five x $10^5$ cultured human **UM-SCC (Squamous cell carcinoma)** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD104/Biotin at a concentration of **10 µg/ml**. Cells were then washed twice and incubated 45 minutes 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 **2.24** $\log_{10}$ 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-CD104 antibody (Catalog #325-020).

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

**Binding of anti-CD104/Biotin +SA/PE to human UM-SCC cells**

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