

**PERFORMANCE DATA SHEET**

2942

**Monoclonal anti-human CD147 (neurothelin/basigin)/Biotin\***

**mAb name/Clone:** UM-8D6

**Isotype:** Mouse IgG1κ

**Immunogen:** Human T cell line Molt 13

**CATALOG#:** 376-030

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** Human CD147 is a transmembrane glycoprotein expressed more intensely on thymocytes than on mature peripheral blood T cells. Antibody UM-8D6 recognizes the CD147 molecule of about 35-40 kd (2). UM-8D6 inhibits homotypic aggregation, adhesion to matrix proteins and migration through matrigel (1).

**References:** 1.) Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 760-766.  
2.) A.H. Kirsch, et al, (1997) Tissue Antigens 50:147-152.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/Thawing is not recommended. Protect from light.

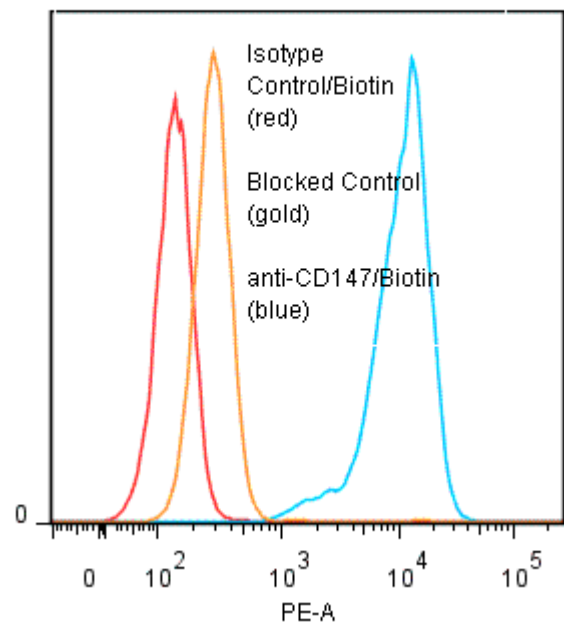
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (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<sup>5</sup> cultured UM-SCC cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD147/Biotin at 10 µg/ml. Cells were washed twice and incubated with 2<sup>o</sup> 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 1.87 log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD147 antibody (Catalog #376-020).

**Binding of anti-CD147/Biotin +SA/PE to human UM-SCC cells**



*\*Research use only. Not for use in Diagnostic procedures.*