

PERFORMANCE DATA SHEET

2942

Monoclonal anti-human CD147 (neurothelin/basigin)/R-PE*

mAb name/Clone: UM-8D6

Isotype: Mouse IgG1κ

Immunogen: Human T cell line Molt 13

CATALOG#: 376-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6 µl of concentrated stock per 5 x 10⁵-cell test)

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. Do not freeze! 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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (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 500 µg/ml with an A₅₆₅/A₂₈₀ ratio of 3.4.

PERFORMANCE: Five x 10⁵ cultured human Raji cells were incubated 45 minutes on ice with 80 µl of anti-CD147/R-PE at a dilution factor of 1:50 (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.8 log₁₀ fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD147 antibody (Catalog #376-020).

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

Binding of anti-CD147/PE to human Raji Cells

