

PERFORMANCE DATA SHEET

2723

Monoclonal anti-human CD98(4F2)/R-PE*

mAb name/Clone: UM7F8

Isotype: Mouse IgG1k

Immunogen: Molt 13 T cell line

CATALOG#: 319-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.5 ml

WORKING DILUTION: 1:20 (or use 4 µl of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Human CD98 (4F2) is expressed on monocytes and activated cells. All cultured human cell lines tested express CD98. CD98 is thought to be an activation antigen. Antibody UM7F8 recognizes a 125 kd heterodimeric membrane glycoprotein CD98. Antibody UM7F8 is comitogenic with soluble anti-CD2 and immobilized anti-CD3 mAbs.

References: A.W. Friedman, et al, (1994) Cell Immunol **154**: 253-263. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 280-283.

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: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant, and 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.

PERFORMANCE: Five x 10⁵ cultured CEM human tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD98/R-PE at a 1:50 dilution (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.49 log₁₀ fluorescent units when compared to a Mouse IgG2a/PE negative control (Catalog #281-050). This shift was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD98 antibody (Catalog #319-020).

* *Research Use Only. Not for use in Diagnostic procedures.*

Binding of anti-CD98/PE to human CEM cells

