

PERFORMANCE DATA SHEET

3238

Monoclonal anti-human CD98(4F2)/Biotin*

mAb name/Clone: UM7F8

Isotype: Mouse IgG1 κ

Immunogen: Molt 13 T cell line

CATALOG#: 319-030

QUANTITY: 100 μ g

CONCENTRATION: 1.0 mg/ml

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 co mitogenic 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. 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 human CEM cells were washed and incubated 45 minutes on ice with 80 μ l of anti-CD98/Biotin at a concentration of 5 μ g/ml. Cells were washed twice and incubated with 2^o 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 2.65 log₁₀ 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 μ l of 0.5 mg/ml anti-CD98 antibody (Catalog #319-020).

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

Binding of anti-CD98/Biotin +SA/PE to human CEM cells

