![Ancell logo]

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

> ***mAb name/Clone:*** **UM7F8**
> ***Isotype:*** Mouse IgG1κ
> ***Immunogen:*** Molt 13 T cell line

CATALOG#: 319-030

QUANTITY: 100 μg   **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 immoblized 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% NaN$_3$ (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 10^5 cultured human **CEM** cells were washed and incubated 45 minutes on ice with 80 μl of anti-CD98/Biotin at a concentration of **5 μg/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** log$_{10}$ 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-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

Isotype Control (red)

Blocked Control (gold)

anti-CD98/Biotin (blue)