

PERFORMANCE DATA SHEET

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

mAb name/Clone: UM7F8

Isotype: Mouse IgG1 κ

Immunogen: Molt 13 T cell line

CATALOG#: 319-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6 μ l 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. 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% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.4 mg/ml** with a Fluorescein/IgG molar ratio of 6.4.

PERFORMANCE: Five x 10⁵ cultured **Jurkat** cells were washed and incubated 45 minutes on ice with 80 μ l of anti-CD98/FITC at a 1:50 dilution. They were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.04** log₁₀ fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040) at a similar concentration. This shift 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/FITC to human cell lines

