

PERFORMANCE DATA SHEET

2125

Monoclonal anti-human CD2(LFA-2, T11)/FITC*

mAb name/Clone: UMCD2/IE7E8

Isotype: Mouse IgG2ak

Immunogen: Human rheumatoid synovial T cell line (ST-1)

CATALOG#: 143-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5×10^5 -cell test)

INFORMATION: Human CD2 is a T-lineage glycoprotein with roles in cell-cell adhesion and the transduction of activation signals. Multiple ligands for CD2 include CD58 (LFA-3), CD59, and CD48. CD2 may play a role in regulating T cell energy. Antibody UMCD2 recognizes the T11₁ epitope of the 50 kd human CD2 molecule. Antibody UMCD2 is useful for studying CD2 ligand-binding mechanisms involved with T cell development and activation.

References: K.F. Kozarsky, et al, (1993) Cell Immunol **150**: 235-246. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 342-352. G.M. Bell & J.B. Imboden (1995) J Immunol **155**: 2805-2807.

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 **0.25 mg/ml** with a Fluorescein/antibody ratio of 8.7.

PERFORMANCE: Five $\times 10^5$ HPB-MLT human tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD2/FITC at a 1:50 dilution (5 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.16 log₁₀ fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog # 281-040). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD2 antibody (Catalog #143-020).

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

Binding of anti-CD2 /FITC to human HPB-MLT cells

