

PERFORMANCE DATA SHEET

1816

Monoclonal anti-human CD30(Ki-1)/Biotin*

mAb name/Clone: AC10

Isotype: Mouse IgG2bk

Immunogen: Human YT lymphoma cells

CATALOG#: 179-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD27 is a lymphocyte specific member of the tumor necrosis factor (TNF) receptor family and is found primarily on peripheral blood T cells and on a subpopulation of B cells and NK cells. The ligand for CD27 is CD70, which is a member of the TNF ligand superfamily. Antibody M-T271 recognizes the dimeric CD27 molecule of approximately 110 kd.

References: Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 350-352. K. Agematsu, et al, (1994) J Immunol **153**: 1421-1429. R.Q. Hintzen, et al, (1994) Immunol Today **15**: 307-311. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) P. 356-360, 435-437. K. Agematsu, et al, (1995) J Immunol **154**: 3627-3635.

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% Na₃ (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 CEM human tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD30/Biotin at 10 µg/ml. Cells were then washed twice and incubated 45 minutes 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 1.90 log₁₀ fluorescent units when compared to a Mouse IgG2b/Biotin negative control (Catalog #284-030). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD30 antibody (Catalog #179-020).

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

Binding of anti-CD30/Biotin (+SA/PE) to human CEM cells

