

PERFORMANCE DATA SHEET

1817

Monoclonal anti-human CD70/Biotin*

mAb name/Clone: BU69

Isotype: Mouse IgG1

Immunogen: Human WM-1 (Waldenström's macroglobulinemia) cell line

CATALOG#: 222-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD70 is not present on resting lymphocytes. CD70 is expressed after activation on about 20% of T cells and on about 70% of B cells. CD70 is a ligand for CD27 and it is also a member of the tumor necrosis factor gene family. Antibody BU69 recognizes CD70 molecule of approximately 30 kd. Antibody BU69 inhibits T cell proliferation induced by dendritic cells.

References: R.Q. Hintzen, et al, (1994) J Immunol **152**: 1762-1773. M.R. Bowman, et al, (1994) J Immunol **152**: 1756-1761. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1137-1138. 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: _____

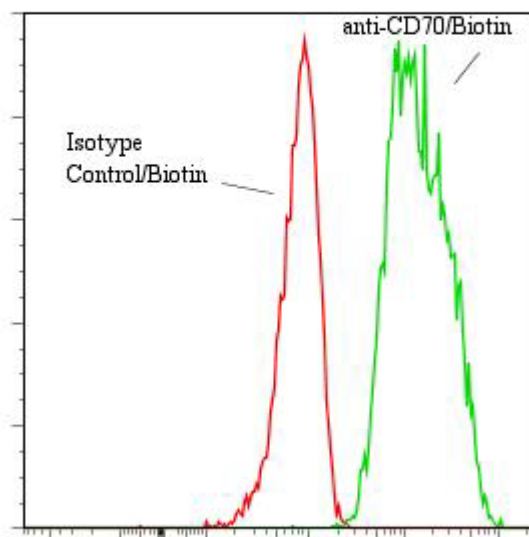
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% Na₂S₂O₅ (as a preservative).

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 **Raji** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD70/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 **1.32 log₁₀** fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030) at a similar concentration. Binding was blocked when pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD70 antibody (Cat# 222-020).

Binding of anti-CD70/Biotin + SA/PE to Raji Cells



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