

PERFORMANCE DATA SHEET

1950

Monoclonal anti-human CD70/R-PE*

mAb name/Clone: BU69

Isotype: Mouse IgG1

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

CATALOG#: 222-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-cell test)

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. Do not freeze! 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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody and PE were removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with PE:Ab molar ratio of 1.21.

PERFORMANCE: Five x 10⁵ cultured **Raji** human tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD70/R-PE at a **1:50** dilution (10µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.33 log₁₀** fluorescent units when compared to a Mouse IgG1/PE negative control (Catalog #278-050) at a similar concentration. Binding was blocked when pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD70 antibody (Catalog #222-020).

***For Research Use Only. Not for Use in Diagnostic Procedures.**
R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

Binding of anti-CD70/PE to human Raji cells

