

PERFORMANCE DATA SHEET

1746

Monoclonal anti-human CD19/R-PE *

mAb name/Clone: BU12

Isotype: Mouse IgG1

Immunogen: Human EB-4 Burkitt lymphoma cell line

CATALOG#: 168-050

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 CD19 is a B cell restricted membrane protein expressed from early stages of B cell development and associates with the antigen receptor complex. CD19 is involved in the regulation of B cell proliferation but eventually disappears from plasma cells. Antibody BU12 recognizes the CD19 molecule of about 95 kd. Antibody BU12 induces adhesion of B cells.

References: D.T. Fearon & R.H. Carter, (1995) *Annu Rev Immunol* **13**: 127-149. *Leukocyte Typing V* (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 507-511. S. Behr & F. Schriever, (1995) *J Exp Med* **182**: 1191-1199.

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% NaN_3 (as a preservative).

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

PERFORMANCE: Five $\times 10^5$ cultured **Raji** human tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD19/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 **1.87** \log_{10} fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD19 antibody (Catalog #168-020).

**This Product is intended for Laboratory Research use only.*

R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

Binding of anti-CD19/R-PE to human Raji Cells

