

PERFORMANCE DATA SHEET

1818

*Monoclonal anti-human CD49f(VLA-6)/R-PE **

mAb name/Clone: BQ16

Isotype: Mouse IgG1

Immunogen: UM-UC-9, human bladder cancer cells

CATALOG#: 356-050

QUANTITY: 120 tests

VOLUME IN VIAL: 200 μ l

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

INFORMATION: Human CD49f molecules are integrin α 6 chains that are expressed as heterodimers with CD29 (β 1 integrin) or CD104 (β 4 integrin) and function as adhesion receptors. CD49f is expressed on platelets, monocytes, T lymphocytes and thymocytes. The ligands for CD49f/CD29 include laminin and invasion. CD49f/CD29 has been shown to associate with CD63.

References: M. Liebert, et al, (1993) Hybridoma **12**: 67-80. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1619-1620. F. Berditchevski, et al, (1995) J Biol Chem **270**: 17784-17790.

STORAGE CONDITIONS: Store at 2 - 5°C. Do not freeze! Protect from light.

PRODUCT STABILITY: Product should retain activity for at least 6 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 was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml**.

PERFORMANCE: Briefly, 5 x 10⁵ cultured **Raji** human tumor cells were washed and incubated 45 minutes on ice with 80 μ l of anti-CD49f/R-PE at a **1:50** dilution factor (10 μ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.52 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 μ l of 0.5 mg/ml anti-CD49f antibody (Catalog #356-020).

***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-CD49f/R-PE to human cell lines

