

# PERFORMANCE DATA SHEET

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## 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:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD49f molecules are integrin α6 chains that are expressed as heterodimers with CD29 (β1 integrin) or CD104 (β4 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% NaN<sub>3</sub> (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** with an A565/A280 ratio of 2.12.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **Raji** human tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD49f/R-PE at a **1:50** dilution factor (10µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.32 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1/PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD49f antibody (Catalog #356-020).

*\*Research use only. Nor for use in Diagnostic procedures.*

**Binding of anti-CD49f/R-PE to human Raji cells**

