

**PERFORMANCE DATA SHEET**

2046

**Monoclonal anti-human CD49f(VLA-6)\*****mAb name/Clone:** BQ16**Isotype:** Mouse IgG1**Immunogen:** UM-UC-9, human bladder cancer cells**CATALOG#:** 356-820 (Preservative Free)**QUANTITY:** 100 µg**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** Human CD49f molecules are integrin  $\alpha 6$  chains that are expressed as heterodimers with CD29 ( $\beta 1$  integrin) or CD104 ( $\beta 4$  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. Open under aseptic conditions. Freeze/Thawing is 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.

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2 µm filtered and vialled under aseptic conditions.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **Raji** human tumor cells were washed and incubated 45 minutes on ice with 80 ml of anti-CD49f antibody at 10 µg/ml. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.78 log<sub>10</sub> fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010) at a similar concentration.

\* *Research use only. Not for use in Diagnostic procedures.*

**Binding of anti-CD49f mAb  
+GAM/FITC to human Raji cells**