# *Monoclonal* **anti-human CD49d** (VLA-4)*

> *mAb name/Clone:* **BU49**
> *Isotype:* Mouse IgG1
> *Immunogen:* Human peripheral myeloma cells

**CATALOG#: 200-820 (Preservative Free)**

**QUANTITY: 100 µg**                                    **CONCENTRATION: 1.0 mg/ml**

**INFORMATION:** Human CD49d molecules are integrin α4 chains that are expressed as heterodimers with CD29 (β1 integrin) or (β7 integrin) and function as adhesion receptors. CD49d/CD29 is mainly expressed on thymocytes and B cells with increased expression on activated T cells. The ligands for CD49d/CD29 include VCAM-1 and fibronectin. Antibody BU49 recognizes the CD49d molecule of about 145 kd.
*References:* Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1617-1618.
T. Sato, (1995) J Immunol **155**: 2938-2947.

**STORAGE CONDITIONS:** *Store at 2 - 5°C*. **Open under aseptic conditions.** Freeze/Thawing is not recommended.
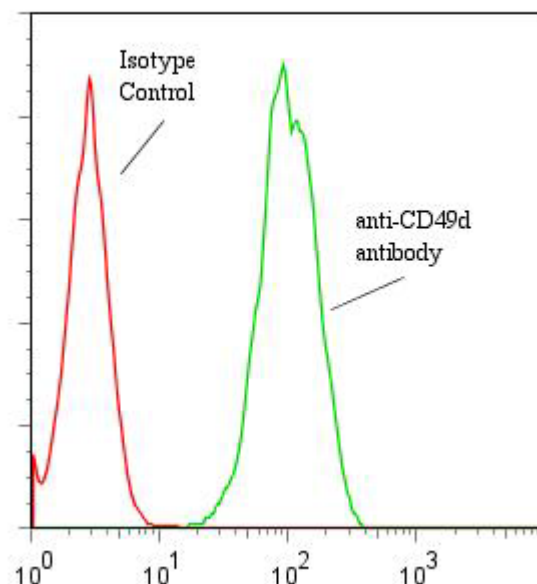
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

**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 vialed under aseptic conditions.

**PERFORMANCE:** Five x $10^5$ cultured **HPB-MLT** human tumor cells were washed incubated 45 minutes on ice with 80 µl of anti-CD49d antibody diluted to **5 µg/ml**. Cells were washed twice and incubated with $2^O$ 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 **1.52** $\log_{10}$ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010).



Binding of anti-CD49d antibody +GAM/FITC to human HPB-MLT

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