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.
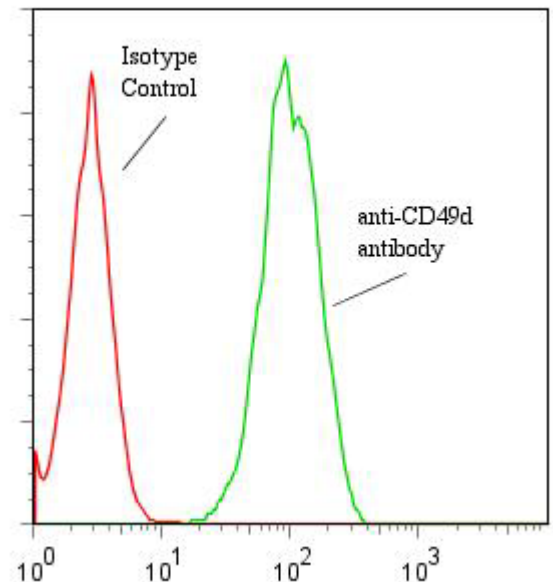
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

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° 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) at a similar concentration.

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

*This Product is intended for Laboratory Research use only.

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