PERFORMANCE DATA SHEET 2533 Monoclonal anti-human CD49d (VLA-4)/Biotin*



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

CATALOG#: 200-030 QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD49d molecules are integrin α 4 chains that are expressed as heterodimers with CD29 (β 1 integrin) or (β 7 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^oC. Freeze/thawing not recommended.

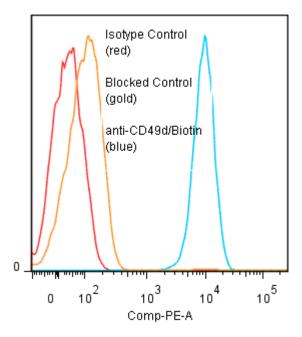
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.
Binding of anti-CD49d/Biotin +SA/PE

PERFORMANCE: Five x 10^5 cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD49d/Biotin at a concentration of **5 µg/ml**. Cells were then washed twice and incubated 45 minutes with 2° reagent Streptavidin R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.52** log₁₀ fluorescent when compared to a Mouse IgG1/Biotin negative control (Catalog # 278-030). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD49d antibody (Catalog #200-020).

Binding of anti-CD49d/Biotin +SA/PE to human HPB-MLT cells



* Research Use Only. Not for use in Diagnostic procedures.