

PERFORMANCE DATA SHEET

2028

Monoclonal anti-human CD49d (VLA-4)/FITC***mAb name/Clone:** BU49**Isotype:** Mouse IgG1**Immunogen:** Human peripheral myeloma cells**CATALOG#:** 200-040**QUANTITY:** 120 tests**VOLUME IN VIAL:** 0.2ml**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5×10^5 -cell test)

INFORMATION: Human CD49d molecules are integrin $\alpha 4$ chains that are expressed as heterodimers with CD29 ($\beta 1$ integrin) or ($\beta 7$ 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°C. Freeze/Thawing is not recommended. Protect from light.

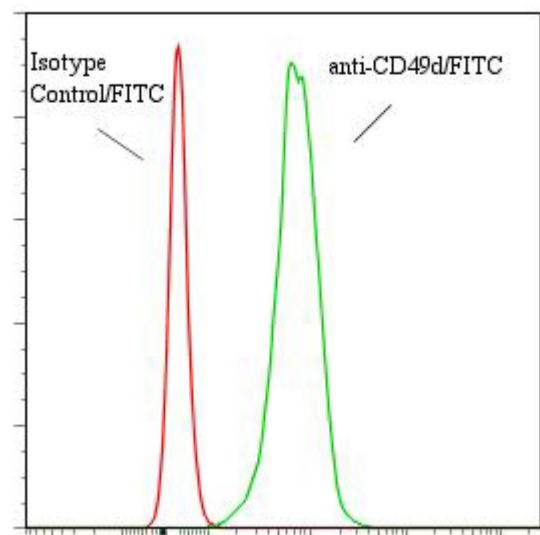
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.25 mg/ml** with a Fluorescein/IgG molar ratio of 7.4.

PERFORMANCE: Five $\times 10^5$ cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD49d/FITC at a dilution factor of **1:50** (5µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.46** \log_{10} fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040) at a similar concentration. 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/FITC to human HPB-MLT Cells



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