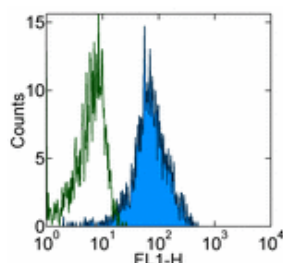


## Anti-Human CD49d (Integrin alpha 4) Purified

Catalog Number: 14-0499

Also Known As: Integrin  $\alpha 4$ , VLA4, ITGA4

RUO: For Research Use Only



Staining of normal human peripheral blood cells with 0.125  $\mu$ g of Mouse IgG1  $\kappa$  Isotype Control Purified (cat. 14-4714) (open histogram) or 0.125  $\mu$ g of Anti-Human CD49d Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat. 11-4011). Cells in the lymphocyte gate were used for analysis.

### Product Information

Contents: Anti-Human CD49d (Integrin alpha 4) Purified

**REF** Catalog Number: 14-0499

Clone: 9F10

Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG1,  $\kappa$

HLDA Workshop: V S215

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

### Description

The 9F10 monoclonal antibody reacts with human CD49d, the 150 kDa integrin  $\alpha 4$  subunit. The complex of CD49d non-covalently associated with integrin  $\beta 1$  (CD29), also known as VLA-4, is a receptor for fibronectin and VCAM-1 (CD106). This complex is expressed by thymocytes, peripheral lymphocytes, monocytes and eosinophils. CD49d also associates with integrin  $\beta 7$  and binds to the Mucosal Addressin Cell-Adhesion Molecule-1 (MadCAM-1).

### Applications Reported

The 9F10 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining. 9F10 has also been reported in *in vitro* functional assays. (Please use Functional Grade purified 9F10, cat. 16-0499, in functional assays.)

### Applications Tested

The 9F10 antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at less than or equal to 0.25  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Schlossman, S., L. Bloumsell, et al. eds (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York.

### Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

14-4714 Mouse IgG1 K Isotype Control Purified

17-4317 Streptavidin APC

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