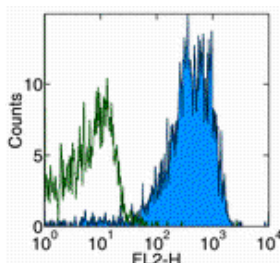


Anti-Human CD49d (Integrin alpha 4) Functional Grade Purified

Catalog Number: 16-0499

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

RUO: For Research Use Only



Staining of normal human peripheral blood cells with Anti-Human CD49d (Integrin $\alpha 4$) PE. Appropriate isotype controls were used (open histogram). Cells in the lymphocyte population were used for analysis.

Product Information

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

REF **Catalog Number:** 16-0499

Clone: 9F10

Concentration: 1 mg/ml

Host/Isotype: Mouse IgG1, κ

HLDA Workshop: V S215


Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ μ g antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

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. 9F10 has also been reported in *in vitro* 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 1 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ 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)

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified

17-4317 Streptavidin APC

