

Product Information

Contents: Functional Grade Purified anti-human CD49d (Integrin α_4)

Catalog Number: 16-0499

Sizes: 50 μ g, 500 μ g

Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, No NaN_3

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

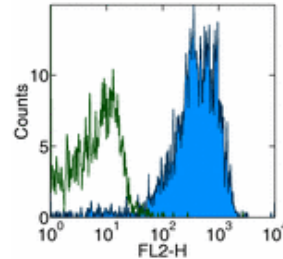
KEEP CONTENT STERILE.

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

Clone: 9F10

Isotype: Mouse IgG1, κ

HLDA No.: V S215



Surface staining of normal human peripheral blood cells with anti-human CD49d (9F10) PE. Appropriate isotype controls were used (open histogram). Cells in the lymphocyte population were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
12-0499	PE anti-human CD49d (Integrin alpha 4)	488	575	FC
14-0499	Affinity Purified anti-human CD49d (Integrin alpha 4)	N/A	N/A	FA FC IHC
16-0499	Functional Grade* Purified anti-human CD49d (Integrin alpha 4)	N/A	N/A	FA FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/ μ g.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The 9F10 monoclonal antibody reacts with human CD49d, the 150 kDa integrin α_4 subunit. The complex of CD49d non-covalently associated with integrin β_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 β_7 and binds to the Mucosal Addressin Cell-Adhesion Molecule-1 (MadCAM-1).

Usage

For research use only, not for diagnostic or therapeutic use. 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 100 μ l blood (or per 1 million cells in 100 μ l total staining volume). It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

- Cat. 12-0499 PE anti-human CD49d (Integrin alpha 4) (clone 9F10)
- Cat. 14-0499 Affinity Purified anti-human CD49d (Integrin alpha 4) (clone 9F10)
- Cat. 11-4011 FITC Anti-Mouse IgG
- Cat. 13-4013 Biotin Anti-Mouse IgG (clone Polyclonal)
- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
- Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
- Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
- Cat. 16-4714 Functional Grade Purified Mouse IgG1, K Isotype Control

References

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

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