

CD49d (Integrin alpha 4) Monoclonal Antibody (9F10), Functional Grade, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Human
Published Species	Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	9F10
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_468974

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	1 Publication
Functional Assay (FN)	Assay-Dependent	-

Product Specific Information

Description: The 9F10 monoclonal antibody reacts with human CD49d, the 150 kDa integrin alpha4 subunit. The complex of CD49d non-covalently associated with integrin beta1 (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 beta7 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 normal human peripheral blood cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

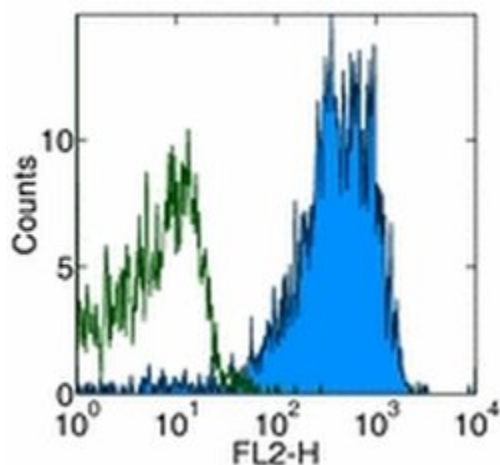
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

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

Aggregation: Less than 10%, as determined by HPLC.

Product Images For CD49d (Integrin alpha 4) Monoclonal Antibody (9F10), Functional Grade, eBioscience™



CD49d (Integrin alpha 4) Antibody (16-0499-85) in Flow

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.

1 Reference

Flow Cytometry (1)

Virology

Impact of antibody quality and anamnestic response on viremia control post-challenge in a combined Tat/Env vaccine regimen in rhesus macaques.

"16-0499 was used in Flow cytometry/Cell sorting to evaluate the factors regulating the immunogenicity and protective efficacy against viruses in a Tat/Env vaccine regimen."

Authors: Demberg T, Brocca-Cofano E, Kuate S, Aladi S, Vargas-Inchaustegui DA, Venzon D, Kalisz I, Kalyanaraman VS, Lee EM, Pal R, DiPasquale J, Ruprecht RM, Montefiori DC, Srivastava I, Barnett SW, Robert-Guroff M

Species
Rhesus monkey

Dilution
Not Cited

Year
2013

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