

APC Rabbit anti-Human CD49d mAb

Catalog No.: A28806

Basic Information

Observed MW**Calculated MW****Category**

Primary antibody

Applications

FC

Cross-Reactivity

Human

CloneNo number

ARC81500

Conjugate

APC. Ex:650nm. Em:660nm.

Background

CD49d is a 150 kD α integrin chain, also known as $\alpha 4$ integrin or VLA-4 α chain. It forms heterodimers with integrin $\beta 1$ ($\alpha 4\beta 1$, VLA-4) or $\beta 7$ ($\alpha 4\beta 7$). CD49d is widely expressed on T lymphocytes, B lymphocytes, monocytes, thymocytes, eosinophils, basophils, mast cells, NK cells, dendritic cells and some non-hematopoietic cells, but is not expressed on normal red blood cells, platelets or neutrophils. VLA-4 binds to VCAM-1 (CD106) and fibronectin. $\alpha 4\beta 7$ is the receptor for VCAM-1 and MAdCAM-1. CD49d is involved in the transport of monocytes to endothelial inflammatory sites and plays a role in cell-cell interactions and cell adhesion to the extracellular matrix. CD49d is involved in lymphocyte migration, T cell activation and hematopoietic stem cell differentiation. CD49d is a marker for the isolation and purification of pure Treg cell populations because it is absent on Foxp3+ cells.

Recommended Dilutions

FC 5 μ l per 10^6 cells in
100 μ l volume

Immunogen Information

Gene ID

3676

Swiss Prot

P13612

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

CD49D; IA4

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

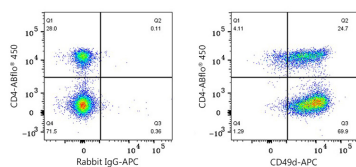
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

Validation Data



Flow cytometry: 1×10^6 Human PBMC were surface-stained with ABflo® 450 Rabbit anti-Human/Monkey CD4 mAb (A26523, 5 μ l/Test) and APC Rabbit IgG isotype control (A24173, 5 μ l/Test, left) or APC Rabbit anti-Human CD49d mAb (A28806, 5 μ l/Test, right). Cells in the lymphocyte gate were used for analysis.