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Product name: Anti-Human CD49d Monoclonal Antibody(PercP
Conjugated)

Catalog: DL21761F

Synonyms: Integrin alpha-4, CD49 antigen-like family member
D, Integrin alpha-IV, VLA-4 subunit
alpha, CD49d, ITGA4

Background: CD49d is a 150 kD α integrin chain known as $\alpha 4$
integrin or VLA-4 α chain. It forms a heterodimer
with either integrin $\beta 1$ ($\alpha 4\beta 1$, VLA-4) or $\beta 7$ ($\alpha 4\beta 7$).
CD49d is expressed broadly on T lymphocytes, B
lymphocytes, monocytes, thymocytes, eosinophils,
basophils, mast cells, NK cells, dendritic cells, and
some non-hematopoietic cells, but not 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 participates in mononuclear cell trafficking to endothelial sites of inflammation and has roles in cell-cell interactions and cell adhesion to extracellular matrices. CD49d is involved in lymphocyte migration, T cell activation, and hematopoietic stem cell differentiation. CD49d is a marker to isolate pure populations of Treg cells due to its absence on Foxp3⁺ cells.

Form: Liquid

Isotype: Mouse IgG1, κ

Size: 20 Tests/50 Tests/100 Tests/200 Tests

Host: Mouse

Reactivity: Human

Application: FCM

Concentration:

Conjugation: PercP

SwissProt: P13612

Buffer: PBS with 0.05% Proclin300, 1% BSA

Recommended Use:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The amount

of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

Data:

Human peripheral blood lymphocytes are stained with Anti-Human CD49d Monoclonal Antibody(PercP Conjugated)(filled gray histogram). Unstained lymphocytes (empty black histogram) are used as control.

Storage:

Keep as concentrated solution.

Store at 2~8°C and protected from prolonged exposure to light. Do not freeze.

This product is guaranteed up to one year from purchase.