

Manufacturer/Supplier:

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Product name: Anti-Human CD49d Monoclonal
Antibody(PerCP/Cyanine5.5 Conjugated)

Catalog: DL20601F

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

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/Cyanine5.5

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 μ L of antibody per test (million cells in 100 μ l staining volume or per 100 μ l 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/Cyanine5.5 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.