

**Manufacturer/Supplier:**

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**Product name:** Anti-Human CD49d Monoclonal  
Antibody(PE/Cyanine5 Conjugated)

**Catalog:** DL21762F

**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  $\alpha$  integrin chain known as  $\alpha 4$  integrin or VLA-4  $\alpha$  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<sup>+</sup> cells.

**Form:** Liquid

**Isotype:** Mouse IgG1,  $\kappa$

**Size:**

**Host:** Mouse

20Tests/100Tests/100Tests $\times$ 2

**Reactivity:** Human

**Application:** FCM

**Concentration:** 5  $\mu$ L

**Conjugation:** PE/Cyanine5

**SwissProt:** P13612

**Buffer:** Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

**Recommended Use:**

Each lot of this antibody is quality control tested by flow

cytometric analysis. The amount of the reagent is suggested to be used 5  $\mu\text{L}$  of antibody per test (million cells in 100  $\mu\text{L}$  staining volume or per 100  $\mu\text{L}$  of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

### 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.