

**Manufacturer/Supplier:**

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

**Catalog:** DL20596F

**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  $\alpha$  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:** 20 Tests/50 Tests/100 Tests/200 Tests

**Host:** Mouse

**Reactivity:** Human

**Application:** FCM

**Concentration:**

**Conjugation:** APC

**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  $\mu$ L of antibody per test (million cells in 100  $\mu$ l staining volume or per 100  $\mu$ 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(APC 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.