

A Reliable Research Partner in Life Science and Medicine

# FITC Anti-Human CD49d Antibody[9F10]

Catalog Number: E-AB-F1144C

Note: Centrifuge before opening to ensure complete recovery of vial contents.

_			- 4		
ш	es	rri	nt	$\mathbf{I} \cap$	m
┙	$\mathbf{c}$	9 I I	NO.	ıv	ш

Reactivity Human Host Mouse

**Isotype** Mouse IgG1, κ

Clone No. 9F10

Isotype Control FITC Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792C]

Conjugation FITC

Conjugation Information FITC is designed to be excited by the Blue laser (488 nm) and detected using an optical

filter centered near 530 nm (e.g., a 525/40 nm bandpass filter).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide and 1% BSA.

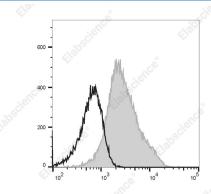
#### Applications Recommended usage

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

of the reagent is suggested to be used 5  $\mu$ 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 FITC Anti-Human CD49d Antibody[9F10] (filled gray histogram) or FITC Mouse IgG1, κ Isotype Control (empty black histogram).

#### **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping lce bag

#### **Antigen Information**

Alternate Names CD49 antigen-like family member D;CD49d;ITGA4;Integrin alpha-4;Integrin alpha-IV;

Web: www.elabscience.cn

VLA-4 subunit alpha

 Uniprot ID
 P13612

 Gene ID
 3676

### For Research Use Only

# **Elabscience®**

## **Elabscience Biotechnology Co., Ltd.**

A Reliable Research Partner in Life Science and Medicine

#### **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+ cells.

Web: www.elabscience.cn