

## APC Anti-Mouse CD49d Antibody[R1-2]

Catalog Number: AN00422E

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

### Description

<b>Reactivity</b>	Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2b, $\kappa$
<b>Clone No.</b>	R1-2
<b>Isotype Control</b>	APC Rat IgG2b, $\kappa$ Isotype Control[LTF-2] [Product E-AB-F09842E]
<b>Conjugation</b>	APC
<b>Conjugation Information</b>	APC is designed to be excited by the Red (627-640 nm) laser and detected using an optical filter centered near 660 nm (e.g., a 660/20 nm bandpass filter).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide and 1% BSA.

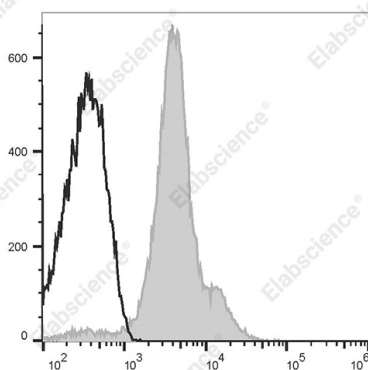
### Applications

### 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



Staining of C57BL/6 murine splenocytes cells with APC Anti-Mouse CD49d Antibody[R1-2] (filled gray histogram) or APC Rat IgG2b,  $\kappa$  Isotype Control (empty black histogram). Total viable cells were used for analysis.

### Preparation & Storage

<b>Storage</b>	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.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	$\alpha$ 4 integrin;VLA-4 $\alpha$ chain;integrin $\alpha$ 4;ITGA4
<b>Uniprot ID</b>	Q00651
<b>Gene ID</b>	16401

### For Research Use Only

## Background

CD49d is a 150 kD glycoprotein, also known as  $\alpha 4$  integrin or VLA-4  $\alpha$  chain. It is a member of the integrin family, expressed on T and B cells, monocytes, eosinophils, basophils, mast cells, thymocytes, NK cells, and dendritic cells. CD49d is a heterodimer expressed with either of two  $\beta$  chains,  $\beta 1$  (CD29) or  $\beta 7$ , to form the VLA-4 (integrin  $\alpha 4\beta 1$ ) or LPAM-1 (integrin  $\alpha 4\beta 7$ ) complexes. CD49d plays a critical role in adhesion and T cell costimulation. The primary ligands for CD49d are VCAM-1, MAdCAM-1, and fibronectin.