

## PE/Cyanine7 Anti-Mouse CD49d Antibody[R1-2]

**Catalog Number:** AN00422UH

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

### Description

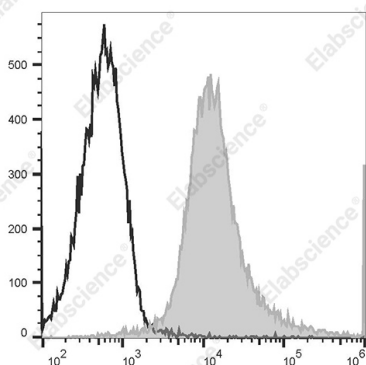
<b>Reactivity</b>	Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2b, $\kappa$
<b>Clone No.</b>	R1-2
<b>Isotype Control</b>	PE/Cyanine7 Rat IgG2b, $\kappa$ Isotype Control[LTF-2] [Product E-AB-F09842H]
<b>Conjugation</b>	PE/Cyanine 7
<b>Conjugation Information</b>	PE/Cyanine7 is designed to be excited by the Blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 775 nm (e.g., a 780/60 nm bandpass filter).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

### Applications

### Recommended usage

<b>FCM</b>	Each lot of this antibody is quality control tested by flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results [The recommended concentration is 0.1-1 $\mu$ g/ $10^6$ cells in 100 $\mu$ L volume].
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### Data



Staining of C57BL/6 murine splenocytes cells with PE/Cyanine7 Anti-Mouse CD49d Antibody[R1-2] (filled gray histogram) or PE/Cyanine7 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 24 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

### For Research Use Only

**Gene ID**

16401

**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.