

## PerCP/Cyanine5.5 Anti-Mouse CD49d Antibody[R1-2]

**Catalog Number:** AN00422J

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

### Description

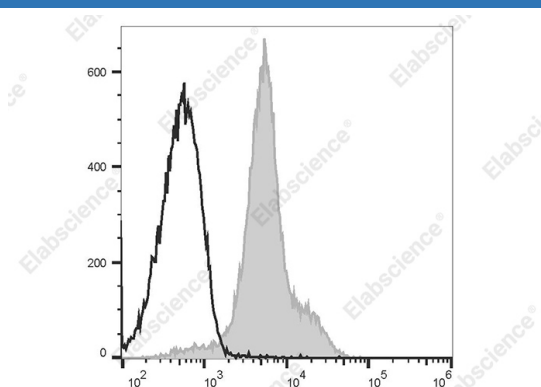
|                                |  |
|--------------------------------|--|
| <b>Reactivity</b>              | Mouse  |
| <b>Host</b>                    | Rat  |
| <b>Isotype</b>                 | Rat IgG2b, $\kappa$  |
| <b>Clone No.</b>               | R1-2   |
| <b>Isotype Control</b>         | PerCP/Cyanine5.5 Rat IgG2b, $\kappa$ Isotype Control[LTF-2] [Product E-AB-F09842J]   |
| <b>Conjugation</b>             | PerCP/Cyanine 5.5  |
| <b>Conjugation Information</b> | PerCP/Cyanine5.5 is designed to be excited by the blue laser (488 nm) and detected using an optical filter centered near 675 nm (e.g., a 690/50 nm bandpass filter). |
| <b>Storage Buffer</b>          | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.  |

### Applications

### Recommended usage

|            |   |
|------------|---|
| <b>FCM</b> | 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 PerCP/Cyanine5.5 Anti-Mouse CD49d Antibody[R1-2] (filled gray histogram) or PerCP/Cyanine5.5 Rat IgG2b,  $\kappa$  Isotype Control (empty black histogram). Total viable cells were used for analysis.

### Preparation & Storage

|                 |   |
|-----------------|---|
| <b>Storage</b>  | Keep as concentrated solution.<br>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   |

### 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.

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