

## Elab Fluor® 488 Anti-Mouse CD49d Antibody[R1-2]

Catalog Number: GFH00422UL

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

### Description

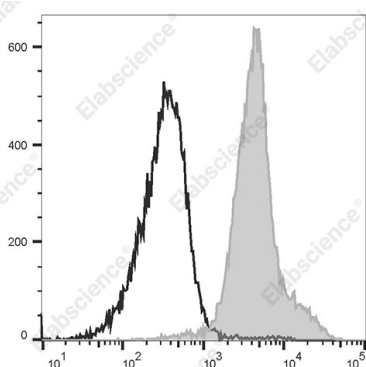
<b>Reactivity</b>	Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2b, κ
<b>Clone No.</b>	R1-2
<b>Isotype Control</b>	Elab Fluor® 488 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842L]
<b>Conjugation</b>	Elab Fluor® 488
<b>Conjugation Information</b>	Elab Fluor® 488 is designed to be excited by the Blue laser (488 nm) and detected using an optical filter centered near 520 nm (e.g., a 525/40 nm bandpass filter).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.

### 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 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.
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### Data



Staining of C57BL/6 murine splenocytes cells with Elab Fluor

® 488 Anti-Mouse CD49d Antibody[R1-2] (filled gray

histogram) or Elab Fluor® 488 Rat IgG2b, κ 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>	α4 integrin;VLA-4 α chain;integrin α4;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.