

PE Anti-Mouse CD49d Antibody[R1-2]

Catalog Number: AN00422UD

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

Description

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|--------------------------------|---|
| Reactivity | Mouse |
| Host | Rat |
| Isotype | Rat IgG2b, κ |
| Clone No. | R1-2 |
| Isotype Control | PE Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842D] |
| Conjugation | PE |
| Conjugation Information | PE 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 575 nm (e.g., a 585/42 nm bandpass filter). |
| Storage Buffer | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide and 1% BSA. |

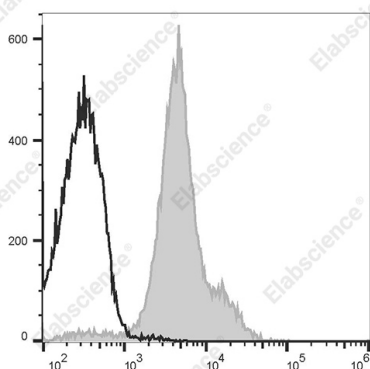
Applications

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 μ L of antibody per test (million cells in 100 μ L staining volume or per 100 μ 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 PE Anti-Mouse CD49d Antibody[R1-2] (filled gray histogram) or PE Rat IgG2b, κ Isotype Control (empty black histogram). Total viable cells were used for analysis.

Preparation & Storage

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|-----------------|---|
| 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 | Ice bag |

Antigen Information

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|------------------------|--|
| Alternate Names | α 4 integrin;VLA-4 α chain;integrin α 4;ITGA4 |
| Uniprot ID | Q00651 |
| Gene ID | 16401 |

For Research Use Only

Background

CD49d is a 150 kD glycoprotein, also known as $\alpha 4$ integrin or VLA-4 α 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 β 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.