

Datasheet for ABIN7013954  
**anti-ITGA4 antibody (PE)**

## 2 Images

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## Overview

|              |   |
|--------------|---|
| Quantity:    | 0.1 mg                                  |
| Target:      | ITGA4                                   |
| Reactivity:  | Mouse                                   |
| Host:        | Rat                                     |
| Clonality:   | Monoclonal                              |
| Conjugate:   | This ITGA4 antibody is conjugated to PE |
| Application: | Flow Cytometry (FACS)                   |

## Product Details

|               |  |
|---------------|--|
| Immunogen:    | murine T lymphoma line TK1   |
| Clone:        | R1-2   |
| Isotype:      | IgG2b kappa  |
| Specificity:  | The rat monoclonal antibody R1-2 recognizes an extracellular epitope of murine CD49d / Integrin alpha 4 (VLA-4 alpha), an approximately 150 kDa glycoprotein of the integrin family, expressed on multiple blood cell types. |
| Purification: | Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions.<br>Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | ITGA4                                    |
| Alternative Name: | CD49d ( <a href="#">ITGA4 Products</a> ) |

## Target Details

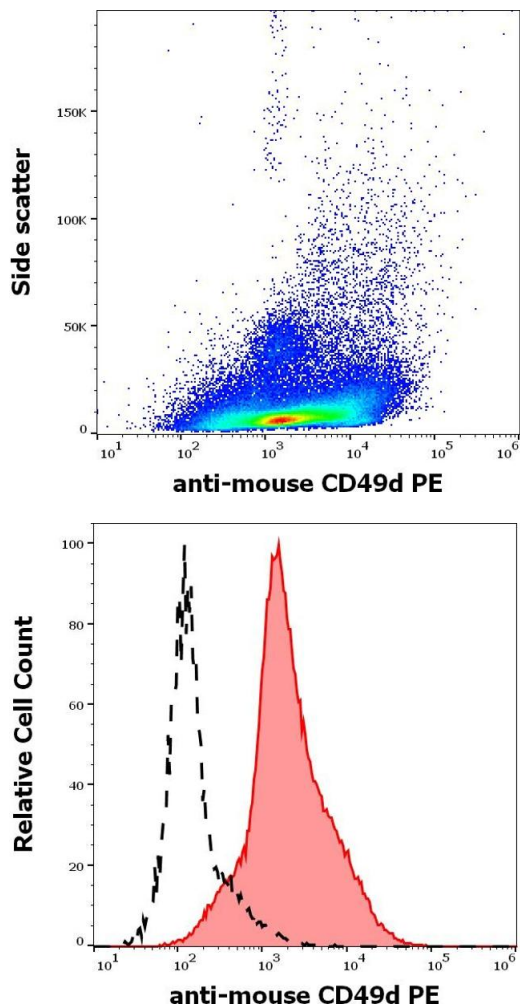
|             |  |
|-------------|--|
| Background: | Integrin subunit alpha 4,CD49d (integrin alpha 4), also known as very late antigen 4 alpha (VLA-4 alpha) is a cell surface glycoprotein constituting integrin complexes. CD49d heterodimerizes with CD29 (integrin beta 1) to form VLA-4 antigen, which is involved in cell-cell and cell-extracellular matrix interactions, which is a receptor for CD106 (VCAM) and fibronectin. CD79d also heterodimerizes with integrin beta 7 to form LPAM-1, which binds to MAdCAM-1 (mucosal vascular addressin). These interactions are important for cell adhesion and activation.,Itga4, Vla-4 alpha |
| Gene ID:    | 16401  |
| UniProt:    | <a href="#">Q00651</a>   |
| Pathways:   | <a href="#">Integrin Complex</a>   |

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | Flow cytometry: Recommended dilution: 1-5 µg/mL. |
| Restrictions:      | For Research Use only                            |

## Handling

|                    |  |
|--------------------|--|
| Concentration:     | 0.5 mg/mL  |
| Buffer:            | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide  |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C   |
| Storage Comment:   | Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.   |



### Flow Cytometry

**Image 1.** Flow cytometry analysis surface staining pattern of murine splenocyte suspension stained using anti-mouse CD49d (R1-2) PE antibody (concentration in sample 5  $\mu$ g/mL).

### Flow Cytometry

**Image 2.** Separation of murine CD49d positive cells (red-filled) from unstained sample (black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension stained using anti-mouse CD49d (R1-2) PE antibody (concentration in sample 5  $\mu$ g/mL).