Datasheet for ABIN7013950

# anti-ITGA5 antibody

2 Images

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## Overview

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|---|---|
| Quantity: | 0.1 mg |
| Target: | ITGA5 |
| Reactivity: | Mouse |
| Host: | Rat |
| Clonality: | Monoclonal |
| Conjugate: | This ITGA5 antibody is un-conjugated |
| Application: | Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC) |

## Product Details

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| Immunogen: | C57BL/6 x A/J)F1 murine mast cell line |
| Clone: | 5H10-27 (MFR5) |
| Isotype: | IgG2a kappa |
| Specificity: | The rat monoclonal antibody 5H10-27 (MFR5) recognizes an extracellular epitope of murine CD49e, a 135 kDa protein serving as VLA-5 alpha chain, expressed on thymocytes, activated T cells, splenic B cells, and mast cells. |
| Purification: | Purified by protein-G affinity chromatography. |

## Target Details

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|---|---|
| Target: | ITGA5 |
| Alternative Name: | CD49e (ITGA5 Products) |

## Target Details

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| Background: | Integrin alpha 5,CD49e, the alpha 5 integrin, noncovalently associates with the beta 1integrin (CD29) to form VLA-5 integrin complex. CD49e itself is composed of two disulfide-linked chains of 135 kDa and 25 kDa. VLA-5 binds to RGD sequence of fibronectin, and to neural adhesion molecule L1. It is important in maintaining the integrity of endothelial monolayers, in monocyte migration into the extracellular tissues, and it also provides a co-stimulatory signal to T cells and enhances receptor and complement receptor-mediated phagocytosis.,ITGA5, VLA-5 alpha, FNRA |
| Gene ID: | 16402 |
| UniProt: | P11688 |
| Pathways: | Integrin Complex |

## Application Details

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| Application Notes: | Flow cytometry: Recommended dilution: 1-4 µg/mL. |
| Restrictions: | For Research Use only |

## Handling

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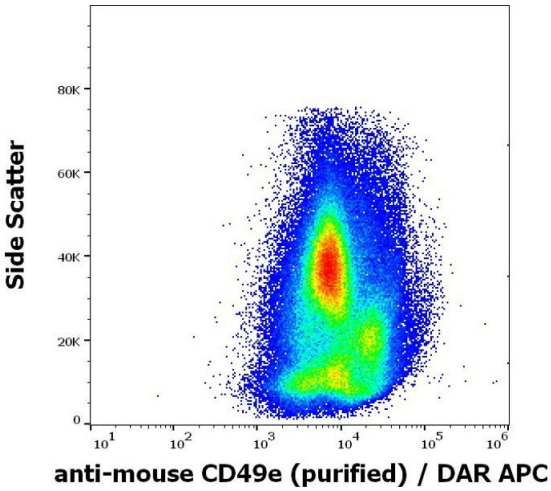
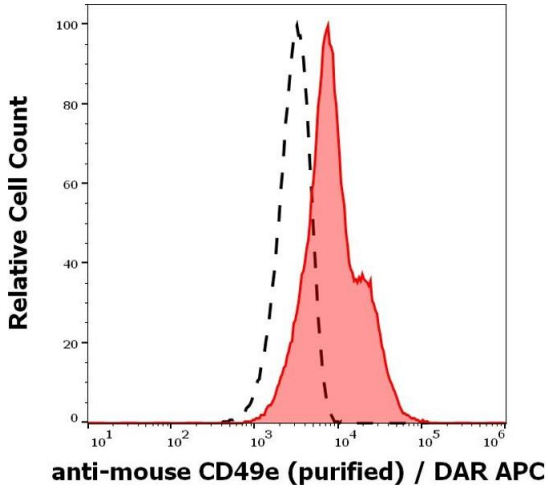
| Concentration: | 1 mg/mL |
| Buffer: | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C |
| Storage Comment: | Store at 2-8°C. Do not freeze. |




**Flow Cytometry**

**Image 1.** Flow cytometry surface staining pattern of murine bone marrow using anti-mouse CD49e (5H10-27(MFR5)) purified antibody (concentration in sample 0.56 µg/mL, DAR APC).




**Flow Cytometry**

**Image 2.** Separation of murine bone marrow cells stained using anti-mouse CD49e (5H10-27(MFR5)) purified antibody (concentration in sample 0.56 µg/mL, DAR APC) from murine bone marrow cells unstained by primary antibody (DAR APC, black-dashed) in flow cytometry analysis (surface staining).