abcam

**ab326522**

# PE Anti-Integrin alpha-5 antibody [5H10-27 (MFR5)]

## Key facts

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|---|---|
| **Isotype** | IgG2a |
| **Host species** | Rat |
| **Conjugation** | PE |
| **Excitation/Emission** | Ex: 480;565nm, Em: 578nm |
| **Storage buffer** | pH: 7.4 Preservative: 0.098% Sodium azide Constituents: PBS |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Clone number** | 5H10-27 (MFR5) |
| **Purification technique** | Size-exclusion chromatography |
| **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. |
| **Light chain type** | kappa |
| **Purification notes** | Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |

## Reactivity data

## Flow Cyt

**Tested**

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|---|---|
| **Species** | Mouse |
| **Dilution info** | 1-4 µg/mL |
| **Notes** | - |

## Target data

See full target information Integrin alpha-5

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|---|---|
| **Function** | Integrin alpha-5/beta-1 (ITGA5:ITGB1) is a receptor for fibronectin and fibrinogen (PubMed:36812915). It recognizes the sequence R-G-D in its ligands. ITGA5:ITGB1 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1. ITGA5:ITGB1 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G-D-dependent cell adhesion to FBN1. ITGA5:ITGB1 acts as a receptor for fibronectin (FN1) and mediates R-G-D-dependent cell adhesion to FN1 (By similarity). ITGA5:ITGB1 is a receptor for IL1B and binding is essential for IL1B signaling. ITGA5:ITGB3 is a receptor for soluble CD40LG and is required for CD40/CD40LG signaling (By similarity). |

## Storage

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|---|---|
| **Shipped at conditions** | Ambient - Can Ship with Ice |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |
| **Storage information** | Do Not Freeze, Store in the dark |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

We do not recommend this combination. It is not covered by our product promise.

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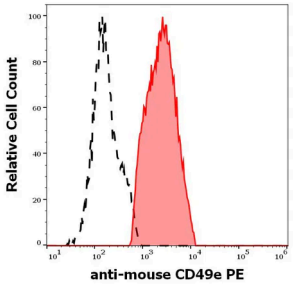
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
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## 2 product images

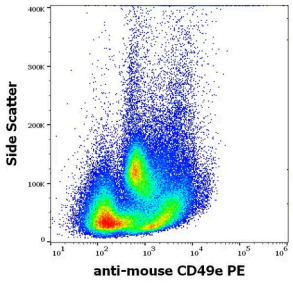



### Flow Cytometry - PE Anti-Integrin alpha-5 antibody [5H10-27 (MFR5)] (ab326522)

Integrin alpha-5 Flow Cytometry staining of murine bone marrow cells using rat Anti-Integrin alpha-5 antibody

Separation of murine CD49e positive SSC low cells (red-filled) from CD49e negative SSC low cells (black-dashed) in flow cytometry analysis (surface staining) of murine bone marrow cells stained using ab326522 (concentration in sample 0.19 µg/ml).

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### Flow Cytometry - PE Anti-Integrin alpha-5 antibody [5H10-27 (MFR5)] (ab326522)

Integrin alpha-5 Flow Cytometry staining of murine bone marrow cells using rat Anti-Integrin alpha-5 antibody

Flow cytometry surface staining pattern of murine bone marrow cells stained using ab326522 (concentration in sample 0.19 µg/ml).

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.