

## Anti-Ms CD49e Purified Itga5 Monoclonal Antibody

Catalog Number: M01911-1

### Introduction

The clone MYG13 recognizes CD22 cell surface antigen, a 130-140kDa protein. The expression of CD22 is primarily restricted to the normal and neoplastic B cells but does not express on other hematopoietic cells. The initiation of expression of CD22 starts in the cytoplasm of pro-B and pre-B cells. Although CD22 is not expressed by plasma cells, it is abundantly expressed by the follicular mantle and marginal zone B-cells. Being a member of the immunoglobulin superfamily, CD22 serves as an adhesion receptor for sialic acid-bearing ligands expressed on erythrocytes and leukocytes. The role of CD22 in the activation of B-cells is primarily associated with tyrosine kinases mediated signal transduction pathways.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development by CapricoBio or are reported in the literature.

### Application Information

Each lot of this antibody has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 5ul of this product is sufficient for staining of 1 million cells in a 100ul staining volume or 100ul of whole blood. It is recommended that antibody reactivity be empirically titrated for optimal performance in the application of interest.

### About Itga5

CD49e, the alpha 5 integrin, noncovalently associates with the beta 1 integrin (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.

### Overview

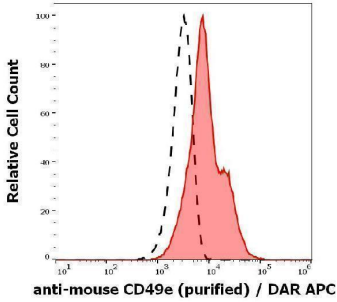
Product Name	Anti-Ms CD49e Purified Itga5 Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Ms CD49e Purified Itga5 Monoclonal Antibody (Catalog# M01911-1). Tested in ICC, Flow Cytometry, IHC-F application(s). This antibody reacts with Mouse.
Conjugate	APC
Application	Flow Cytometry, IHC-F, ICC
Clonality	Monoclonal 5H10-27 (MFR5)
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Rat

Uniprot ID	P11688
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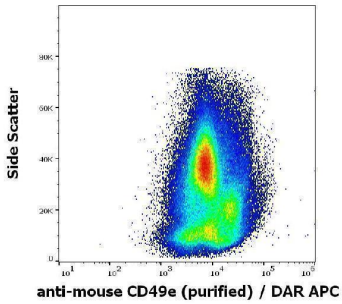
## Technical Details

Immunogen	C57BL/6 x A/J)F1 murine mast cell line. 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.
Predicted Reactive Species	Bovine
Isotype	Rat IgG2a kappa
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-G affinity chromatography.
Suggested Dilutions	Flow cytometry: 1-4 ug/ml.

## Anti-Ms CD49e Purified Itga5 Monoclonal Antibody (M01911-1) Images



Separation of murine bone marrow cells stained using anti-mouse CD49e (5H10-27(MFR5)) purified antibody (concentration in sample 0.56  $\mu\text{g}/\text{ml}$ , DAR APC) from murine bone marrow cells unstained by primary antibody (DAR APC, black-dashed) in flow cytometry analysis (surface staining).



Flow cytometry surface staining pattern of murine bone marrow using anti-mouse CD49e (5H10-27(MFR5)) purified antibody (concentration in sample 0.56  $\mu\text{g}/\text{ml}$ , DAR APC).

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