

Anti-Ms CD18 Purified Itgb2 Monoclonal Antibody

Catalog Number: M00458-3

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 Itgb2

CD18, integrin beta2 subunit, forms heterodimers with four types of CD11 molecule to constitute leukocyte (beta2) integrins: alphaLbeta2 (CD11a/CD18, LFA-1), alphaMbeta2 (CD11b/CD18, Mac-1, CR3), alphaXbeta2 (CD11c/CD18) and alphaDbeta2 (CD11d/CD18). In most cases, the response mediated by the integrin is a composite of the functions of its individual subunits. These integrins are essential for proper leukocyte migration, mediating intercellular contacts. Absence of CD18 leads to leukocyte adhesion deficiency-1; severe reduction of CD18 expression leads to the development of a psoriasiform skin disease. CD18 is also a target of *Mannheimia (Pasteurella) haemolytica* leukotoxin and is sufficient to mediate leukotoxin-mediated cytolysis.

Overview

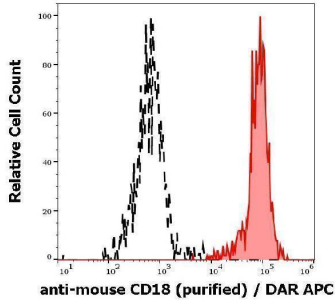
Product Name	Anti-Ms CD18 Purified Itgb2 Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Ms CD18 Purified Itgb2 Monoclonal Antibody (Catalog# M00458-3). Tested in Flow Cytometry, IP, WB, IHC-P, IHC-F application(s). This antibody reacts with Mouse.
Conjugate	APC
Application	Flow Cytometry, IP, IHC-P, IHC-F, WB
Clonality	Monoclonal M18/2
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	P11835

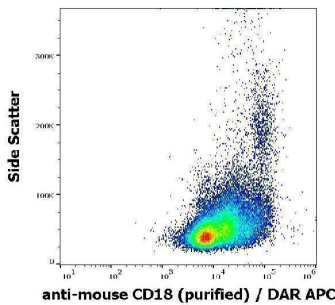
Technical Details

Immunogen	Murine cytotoxic T cell glycoproteins. The rat monoclonal antibody M18/2 recognizes an extracellular epitope of CD18 antigen (integrin beta2 subunit; beta2 integrin), a 95 kDa type I transmembrane protein expressed on all leukocytes.
Predicted Reactive Species	Bovine
Isotype	Rat IgG2a
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Flow cytometry: 1 ug/ml.

Anti-Ms CD18 Purified Itgb2 Monoclonal Antibody (M00458-3) Images



Separation of murine myeloid cells stained using anti-mouse CD18 (M18/2) purified antibody (concentration in sample 16 $\mu\text{g/ml}$, DAR APC, red-filled) from murine myeloid cells unstained by primary antibody (DAR APC, black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension.



Flow cytometry surface staining pattern of murine splenocytes stained using anti-mouse CD18 (M18/2) purified antibody (concentration in sample 16 $\mu\text{g/ml}$) DAR APC.

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