

Anti-Ms CD11a Purified Itgal Monoclonal Antibody

Catalog Number: M04466-2

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 ITGAL

CD11a (LFA-1 alpha) together with CD18 constitute leukocyte function-associated antigen 1 (LFA-1), the alphaLbeta2 integrin. CD11a is implicated in activation of LFA-1 complex. LFA-1 is expressed on the plasma membrane of leukocytes in a low-affinity conformation. Cell stimulation by chemokines or other signals leads to induction the high-affinity conformation, which supports tight binding of LFA-1 to its ligands, the intercellular adhesion molecules ICAM-1, -2, -3. LFA-1 is thus involved in interaction of various immune cells and in their tissue-specific settlement, but participates also in control of cell differentiation and proliferation and of T-cell effector functions. Blocking of LFA-1 function by specific antibodies or small molecules has become an important therapeutic approach in treatment of multiple inflammatory diseases. For example, humanized anti-LFA-1 antibody Efalizumab (Raptiva) is being used to interfere with T cell migration to sites of inflammation; binding of cholesterol-lowering drug simvastatin to CD11a allosteric site leads to immunomodulation and increase in lymphocytic cholinergic activity.

Overview

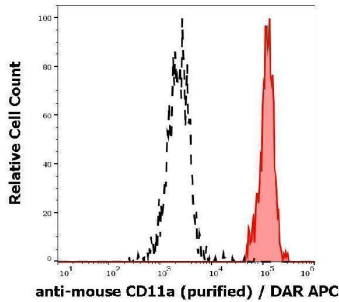
Product Name	Anti-Ms CD11a Purified Itgal Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Ms CD11a Purified Itgal Monoclonal Antibody (Catalog# M04466-2). Tested in Flow Cytometry, IP, IHC-F application(s). This antibody reacts with Mouse.
Conjugate	APC
Application	Flow Cytometry, IP, IHC-F
Clonality	Monoclonal M17/4
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	E9Q5M7

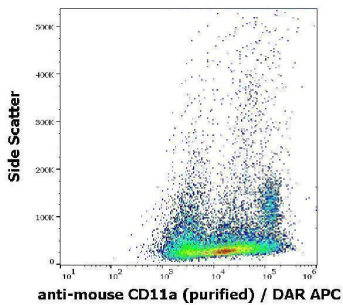
Technical Details

Immunogen	C57BL/6 mouse splenic secondary cytotoxic T lymphocytes. The rat monoclonal antibody M17/4 reacts with an extracellular epitope of CD11a (alpha-subunit of murine LFA-1), a 180 kDa type I transmembrane glycoprotein expressed on B and T lymphocytes, monocytes, macrophages, neutrophils, basophils and eosinophils.
Predicted Reactive Species	Bovine
Isotype	Rat IgG2a
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-G affinity chromatography.
Suggested Dilutions	Flow cytometry: 1 ug/ml. Immunohistochemistry (frozen sections): Positive tissue: murine spleen or thymus, acetone fixation.

Anti-Ms CD11a Purified Itgal Monoclonal Antibody (M04466-2) Images



Separation of murine myeloid cells (red-filled) from cellular debris (black-dashed) in flow cytometry analysis (surface staining) of murine splenocytes stained using anti-mouse CD11a (M17/4) purified antibody (concentration in sample 0,6 µg/ml) DAR APC.



Flow cytometry surface staining pattern of murine splenocytes stained using anti-mouse CD11a (M17/4) purified antibody (concentration in sample 0,6 µg/ml) DAR APC.

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