Anti-human CD11b Monoclonal Antibody FITC Conjugated, Flow Validated

Catalog Number: FC00144-FITC

Introduction

CD11b is a 165-kDa adhesion glycoprotein that associates with the 95-kDa integrin β2 (CD18) to form the CD11b/CD18 complex, also known as Mac-1 or CR3. CD11b is expressed on activated lymphocytes, monocytes, granulocytes, and a subset of NK cells. CD11b functions in cell-cell and cell-substrate interactions and is a receptor for IC3b, CD54 (ICAM-1), CD102 (ICAM-2) and CD50 (ICAM-3). The OKM1 antibody directed against the CD11b antigen on human monocytes and granulocytes.

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 5μl of this product is sufficient for staining of 1 million cells in a 100μl staining volume or 100μl of whole blood. It is recommended that antibody reactivity be empirically titrated for optimal performance in the application of interest.

About Itgam

ITGAM (Integrin Alpha-M), also called CD11B or Mo1 ALPHA SUBUNIT (MO1A), is one protein subunit that forms the heterodimeric integrin alpha-M beta-2 (αMβ2) molecule. A major surface antigen family on human leukocytes includes complement receptor type 3 (CR3A; also called ITGAM, Mac1, or Mo1), lymphocyte function-associated (LFA) antigen type 1 (LFA-1; also called ITGAL), and p150, 95 (ITGAX). By in situ hybridization, Corbi et al. (1988) demonstrated that the genes encoding the alpha subunits of LFA1 (ITGAL), Mac1, and p150, 95 (ITGAX), all of which are involved in leukocyte adhesion, constitute a cluster on 16p13.1-p11. Callen et al. (1991) narrowed the assignment to 16p11.2. Inflammation plays an essential role in the initiation and progression of atherosclerosis. Simon et al. (2000) presented evidence that it also has a role in vascular repair after mechanical arterial injury (i.e., percutaneous transluminal coronary angioplasty, or PTCA).

Overview

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<th>Anti-human CD11b Monoclonal Antibody FITC Conjugated, Flow Validated</th>
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<tr>
<td>Reactive Species</td>
<td>Human</td>
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<tr>
<td>Description</td>
<td>Mouse Monoclonal Anti-human CD11b FITC Conjugated, designed for Flow Cytometry and validated by Flow Cytometry using Human cells.</td>
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<td>Conjugate</td>
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<td>Monoclonal OKM1</td>
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Formulation: PBS, pH 7.2, 0.09% NaN3 and 0.2% (w/v) BSA

Storage Instructions: 4°C and protect from prolonged exposure to light. Do not freeze.

Host: Mouse

Uniprot ID: P05555

Technical Details

Immunogen: Human PBMC

Isotype: IgG2b,k

Form: Liquid

Concentration: 0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.

Purification: Protein A purified

Suggested Dilutions: User need to optimize the dilution ratio for this antibody

For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

Anti-human CD11b Monoclonal Antibody FITC Conjugated, Flow Validated (FC00144-FITC) Images

PBMCs monocyte gated populations stained with FITC conjugated anti-human CD11b (clone OKM1, red histogram).

PBMCs monocytes stained with isotype control IgG2b FITC (blue histogram)

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