

Anti-Human CD11b ITGAM Monoclonal Antibody mFluor450 Conjugated, Flow Validated

Catalog Number: FC00144-mFluor450

Introduction

CD11b is a 165-kDa adhesion glycoprotein that associates with the 95-kDa integrin beta2 (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 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 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 (alphaMbeta2) 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 (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

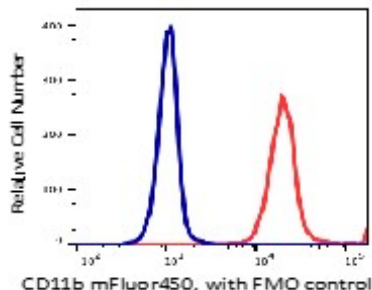
Product Name	Anti-Human CD11b ITGAM Monoclonal Antibody mFluor450 Conjugated, Flow Validated
Reactive Species	Human
Description	Boster Bio Anti-Human CD11b ITGAM Monoclonal Antibody mFluor450 Conjugated, Flow Validated (Catalog# FC00144-mFluor450). Tested in Flow Cytometry application(s). This antibody reacts with Human.
Conjugate	mFluor450
Application	Flow Cytometry
Clonality	Monoclonal Clone: OKM1
Formulation	PBS pH 7.2, 0.2% (w/v) BSA, 0.09% (w/v) sodium azide

Storage Instructions	Store at 2-8°C. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P11215

Technical Details

Immunogen	Human PBMC
Predicted Reactive Species	Bovine, Canine
Isotype	IgG2b,k
Form	Liquid, in PBS, pH7.2, <0.09% NaN ₃ and 0.2% (w/v) BSA
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity column chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: User needs to optimize the dilution ratio for this antibody.

Anti-Human CD11b ITGAM Monoclonal Antibody mFluor450 Conjugated, Flow Validated (FC00144-mFluor450) Images



Monocytes gated PBMCs stained with mFluor 450 conjugated anti-human CD11b (clone OKM1, red histogram). Monocytes gated PBMCs with FL-6 FMO control (blue histogram). The flow data are generated in Beckman Coulter CytoFLEX S Flowcytometer and are analyzed by using FlowJo software.

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