

Anti-Human CD11c ITGAX Monoclonal Antibody PE Conjugated, Flow Validated

Catalog Number: FC00357-PE

Introduction

CD4 is a 55kD type I transmembrane glycoprotein and a member of the immunoglobulin superfamily. It is a specific marker for T lymphocytes, monocytes, macrophages, and dendritic cells. Through interaction of MHC-II, CD4 facilitates cell-cell interaction, thymic differentiation, and activation of downstream signaling cascades. HIV infection of T-cells is instigated through binding of HIV to CD4. The OKT4 antibody binds to the D3 domain of CD4 and does not inhibit HIV binding.

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 ITGAX

CD stands for "cluster of differentiation"; the number that follows is arbitrarily assigned. In the full designation the cell type and nature and molecular weight of the antigen are given in brackets; for CD4, this is as follows: [T, gp55]. CD4 is present on a subset of T lymphocytes ("helper/inducer" T cells) and is also expressed at a lower level on monocytes, tissue macrophages and granulocytes. The antigen is involved in binding to MHC class II molecules. The intracellular domain of the antigen is associated with p56lck protein tyrosine kinase.

Overview

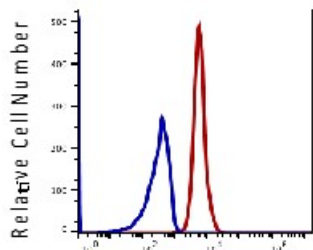
Product Name	Anti-Human CD11c ITGAX Monoclonal Antibody PE Conjugated, Flow Validated
Reactive Species	Cynomolgus monkey, Human, Baboon, Rhesus monkey
Description	Boster Bio Anti-Human CD11c ITGAX Monoclonal Antibody PE Conjugated, Flow Validated (Catalog# FC00357-PE). Tested in Flow Cytometry application(s). This antibody reacts with Human, Rhesus monkey, Cynomolgus monkey, Baboon.
Conjugate	PE
Application	Flow Cytometry
Clonality	Monoclonal Clone: 3.9
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	P20702

Technical Details

Immunogen	Rheumatoid synovial fluid cells and fibronectin purified human monocytes
Predicted Reactive Species	Bovine, Canine
Isotype	IgG1,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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>User needs to optimize the dilution ratio for this antibody.</p>

Anti-Human CD11c ITGAX Monoclonal Antibody PE Conjugated, Flow Validated (FC00357-PE) Images



CD11c PE 3.9, with isotype control

Monocytes gated PBMCs stained with PE conjugated anti-human CD11c (clone 3.9) (red histogram). Monocytes gated PBMCs stained with PE conjugated mouse IgG1 isotype control (Blue histogram). The data are generated by BD Accuri C6 Flow Cytometer and analyzed by FlowJo software.

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