BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-human CD55/Daf Monoclonal Antibody Biotin Conjugated, Flow Validated

Catalog Number: FC00910-Biotin

Introduction

The clone F4-29D9 binds with a single chain 70kDa glycoprotein and identified as CD55 (also known as decay accelerating factor, DAF). CD55 is widely expressed on cells throughout the body including leukocytes, erythrocytes, epithelium, endothelium, and fibroblasts. It is a Glycosyl phosphatidylinositol anchored (GPIanchored) protein and inhibits autologous complement cascade activation. CD55 also serves as receptor for CD97, echovirus and Coxsackie B virus. Anti-CD55 is a useful marker for the diagnosis of paroxysmal nocturnal hemoglobinuria (PNH).

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 quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is 0.5ug per 1x106 cells in 100ul of staining volume followed by a secondary florescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

About CD55

Complement decay-accelerating factor, also known as CD55 or DAF, is a protein that, in humans, is encoded by the CD55 gene. This gene encodes a glycoprotein involved in the regulation of the complement cascade. Binding of the encoded protein to complement proteins accelerates their decay, thereby disrupting the cascade and preventing damage to host cells. Antigens present on this protein constitute the Cromer blood group system (CROM). Alternative splicing results in multiple transcript variants. The predominant transcript variant encodes a membrane-bound protein, but alternatively spliced transcripts may produce soluble proteins.

Overview

Product Name	Anti-human CD55/Daf Monoclonal Antibody Biotin Conjugated, Flow Validated
Reactive Species	Human
Description	Boster Bio Anti-human CD55/Daf Monoclonal Antibody Biotin Conjugated, Flow Validated (Catalog# FC00910-Biotin). Tested in Flow Cytometry application(s). This antibody reacts with Human.
Conjugate	Biotin
Application	Flow Cytometry
Clonality	Monoclonal Clone: F4-29D9
Formulation	PBS pH 7.2, 0.09% sodium azide

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Storage Instructions	Store at 2-8°C. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P08174

Technical Details

Immunogen	Human umbilical vein endothelial cells
Isotype	IgG1,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	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.

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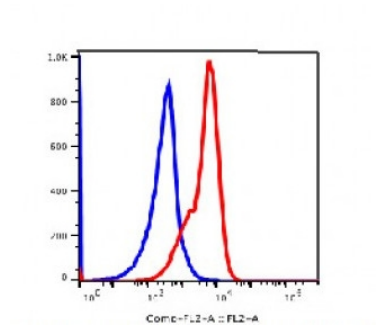
Anti-human CD55/Daf Monoclonal Antibody Biotin Conjugated, Flow Validated (FC00910-Biotin) Images



Lymphocytes gated human PBMCs stained with biotin conjugated mouse anti-human CD55 followed by SA-PE (clone F4-29D9, red histogram). Blue histogram is for the lymphocytes gated PBMCs stained with biotin conjugated mouse IgG1 (MOPC31C) isotype control followed by staining with streptavidin PE.