

# Anti-Human CD31 PECAM1 Monoclonal Antibody FITC Conjugated, Flow Validated

Catalog Number: FC01513-FITC

## Introduction

The clone WM53 selectively binds with a 67kDa glycoprotein, known as CD33 having sialic acid-binding immunoglobulin-like lectin. It belongs to the ITIM (immuno-receptor tyrosine-based inhibitory motif) containing molecules able of recruiting protein tyrosine phosphatases. CD33 is expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells. It is absent on platelets, lymphocytes, erythrocytes and hematopoietic stem cells.

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 using human PBMCs. 5ul of this product is found sufficient for staining 1 million PBMCs in 100ul staining volume or 0.1ml whole blood. However, it is recommended that antibody reactivity be empirically titrated for optimal performance in the application of interest.

## About PECAM1

CD33, also known as Siglec-3 (sialic acid binding Ig-like lectin 3, SIGLEC3, SIGLEC-3, gp67, p67), is a transmembrane receptor expressed on cells of myeloid lineage. It is usually considered myeloid-specific, but it can also be found on some lymphoid cells. CD33 binds sialic acids, therefore is a member of the SIGLEC family of lectins. By fluorescence in situ hybridization, CD33 is mapped to 19q13.3-q13.4.

## Overview

Product Name	Anti-Human CD31 PECAM1 Monoclonal Antibody FITC Conjugated, Flow Validated
Reactive Species	Human
Description	Boster Bio Anti-Human CD31 PECAM1 Monoclonal Antibody FITC Conjugated, Flow Validated (Catalog# FC01513-FITC). Tested in Flow Cytometry application(s). This antibody reacts with Human.
Conjugate	FITC
Application	Flow Cytometry
Clonality	Monoclonal Clone: JC70
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

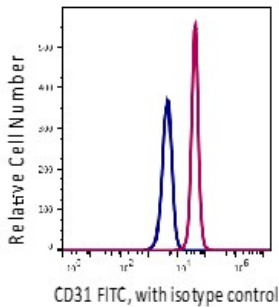
Uniprot ID

P16284

## Technical Details

Immunogen	Cell membrane preparation from the spleen of a patient with hairy cell leukemia
Predicted Reactive Species	Bovine, Canine
Isotype	IgG1,k
Form	Liquid, in PBS, pH7.2, <0.09% NaN3 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 CD31 PECAM1 Monoclonal Antibody FITC Conjugated, Flow Validated (FC01513-FITC) Images



Monocytes gated PBMCs stained with FITC conjugated anti-human CD31 (clone JC70) (red histogram). Monocytes gated PBMCs stained with FITC conjugated mouse IgG1 isotype control (Blue histogram). The data are generated by BD Accuri C6 Flow Cytometer and analyzed by FlowJo software.

## 8 Publications Citing This Product

1. PubMed ID: 30008838, EPCR promotes MGC803 human gastric cancer cell tumor angiogenesis in vitro through activating ERK1/2 and AKT in a PAR1-dependent manner
2. PubMed ID: 27811372, The induction of autophagy against mitochondria-mediated apoptosis in lung cancer cells by a ruthenium (II) imidazole complex
3. PubMed ID: 24312143, Wu Q, Chang Y, Zhang L, Zhang Y, Tian T, Feng G, Zhou S, Zheng Q, Han F, Huang F. J Cancer. 2013 Nov 21;4(9):727-35. Doi: 10.7150/Jca.7576. ECollection 2013. Srp1 Dissimilarly Impacts On The Growth, Metastasis, Chemosensitivity And Angiogenesis O...

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