

Anti-Human CD54 Icam1 Monoclonal Antibody PE Conjugated, Flow Validated

Catalog Number: FC00171-PE

Introduction

The antibody recognizes a 90-kDa antigen that is present on human B lymphocytes. The CD19 antigen is present on approximately 7% to 23% of human peripheral blood lymphocytes and on spleenocytes, and on human B lymphocytes at all stages of maturation but is lost on terminally differentiated plasma cells. CD19 does not react with resting or activated T lymphocytes, granulocytes, or monocytes.

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 Icam1

B-lymphocyte antigen CD19, also known as CD19 (Cluster of Differentiation 19), is a protein that in humans is encoded by the CD19 gene. It is found on the surface of B-cells, a type of white blood cell. Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. The CD19 gene encodes a cell surface molecule that assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.

Overview

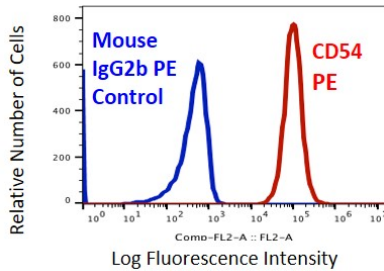
Product Name	Anti-Human CD54 Icam1 Monoclonal Antibody PE Conjugated, Flow Validated
Reactive Species	Human
Description	Boster Bio Anti-Human CD54 Icam1 Monoclonal Antibody PE Conjugated, Flow Validated (Catalog# FC00171-PE). Tested in Flow Cytometry application(s). This antibody reacts with Human.
Conjugate	PE
Application	Flow Cytometry
Clonality	Monoclonal Clone: LB-2
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	P05362
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Technical Details

Immunogen	MHC Class II antigen negative human Blymphoblastoid cell line
Predicted Reactive Species	Bovine, Canine
Isotype	IgG2b,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 CD54 Icam1 Monoclonal Antibody PE Conjugated, Flow Validated (FC00171-PE) Images



Live gated Daudi cells stained with PE conjugated mouse anti-human CD54 (clone LB-2) (red histogram). Live gated Daudi cells stained with PE conjugated mouse IgG2b isotype control (Blue histogram). The data were generated by BD Accuri C6 Flow cytometer

4 Publications Citing This Product

1. PubMed ID: 25153881, Anti-inflammatory effect of the blueberry anthocyanins malvidin-3-glucoside and malvidin-3-galactoside in endothelial cells
2. PubMed ID: 23497622, Wang W, Zhao F, Fang Y, Li X, Shen L, Cao T, Zhu H. Crit Care. 2013 Mar 11;17(2):R44. Doi: 10.1186/Cc12558. Glycyrrhizin Protects Against Porcine Endotoxemia Through Modulation Of Systemic Inflammatory Response.
3. PubMed ID: 19598299, Yao Jh, Zhang Xs, Zheng Ss, Li Yh, Wang Lm, Wang Zz, Chu L, Hu Xw, Liu Kx, Tian Xf. World J Gastroenterol. 2009 Jul 14;15(26):3240-5. Prophylaxis With Carnosol Attenuates Liver Injury Induced By Intestinal Ischemia/Reperfusion.

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