

Anti-human CD8 Cd8a Monoclonal Antibody Biotin Conjugated, Flow Validated

Catalog Number: FC02236-Biotin

Introduction

The clone OKT-8 is a 32-34kDa type I transmembrane glycoprotein and a member of the immunoglobulin superfamily. The OKT-8 binds with CD8alpha forms either a homodimer (2 alpha chains) or a heterodimer with CD8beta and is expressed on the surface of cytotoxic T cells, NK cells, cortical thymocytes, and also on some dendritic cells. CD8 functions as a co-receptor for T cell receptor and specifically binds to class I MHC for antigen recognition and T cell activation.

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 dose of this antibody is 0.5ug per 1x10⁶ cells in 100ul of staining volume followed by any fluorescent conjugated streptavidin. It is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

About Cd8a

The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. It is mapped to 2p11.2. The CD8 antigen, acting as a coreceptor, and the T-cell receptor on the T lymphocyte recognize antigen displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. This gene also encodes the CD8 alpha chain isoforms.

Overview

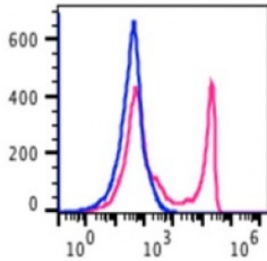
Product Name	Anti-human CD8 Cd8a Monoclonal Antibody Biotin Conjugated, Flow Validated
Reactive Species	Human
Description	Boster Bio Anti-human CD8 Cd8a Monoclonal Antibody Biotin Conjugated, Flow Validated (Catalog# FC02236-Biotin). Tested in Flow Cytometry application(s). This antibody reacts with Human.
Conjugate	Biotin
Application	Flow Cytometry
Clonality	Monoclonal Clone: OKT8
Formulation	PBS pH 7.2, 0.09% sodium azide
Storage Instructions	Store at 2-8°C. Avoid repeated freeze-thaw cycles.

Host	Mouse
Uniprot ID	P01732

Technical Details

Immunogen	Human peripheral blood T lymphocytes
Isotype	IgG2a,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	<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 CD8 Cd8a Monoclonal Antibody Biotin Conjugated, Flow Validated (FC02236-Biotin) Images



Lymphocytes gated PBMCs stained with biotin conjugated mouse anti-human CD8 (clone OKT8) followed by staining with SA-PE (red histogram). Lymphocytes gated PBMCs stained with isotype control mouse IgG2a biotin (clone RPC5.4) followed by SA-PE (blue histogram).

2 Publications Citing This Product

1. PubMed ID: 15133849, Effect of Hejie decoction on T cell immune state of chronic hepatitis B patients
2. PubMed ID: 25816072, Xu Y, Tan X, Wang D, Wang W, Li Y, Wu M, Chen S, Wu Y, Tan C. Int J Mol Med. 2015 Jun;35(6):1501-10. Doi: 10.3892/ijmm.2015.2154. Epub 2015 Mar 24. Elevated Survivin Expression In Peripheral Blood Mononuclear Cells Is Central To Collateral Formati...

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