

Anti-Human CD3 Monoclonal Antibody PE Conjugated, Flow Validated

Catalog Number: FC02675-PE-1

Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/delta) form the CD3/T-cell receptor complex. It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proved effective in the treatment of renal, heart, and liver allograft rejection.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development 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 5µl of this product is sufficient for staining of 1 million cells in a 100µl staining volume or 100-200 µl of whole blood. It is recommended that antibody reactivity be empirically titrated for optimal performance in the application of interest.

About CD3E

The alpha-beta heterodimeric T-cell antigen receptor binds antigen in association with major histocompatibility complex proteins on host cell surfaces. These 2 disulfide-linked glycoproteins, TCRA and TCRB are associated on T-cell surfaces with a complex of proteins called CD3 (formerly T3). Human CD3 consists of at least 4 proteins: gamma, delta, epsilon, and zeta. The CD3-gamma/CD3-delta gene pair is within 300 kb of the CD3-epsilon gene and therefore these genes form a tightly linked cluster on 11q23. The clustering may be significant in terms of their simultaneous activations during T-cell development.

Overview

Product Name	Anti-Human CD3 Monoclonal Antibody PE Conjugated, Flow Validated
Reactive Species	Human
Description	Boster Bio Anti-Human CD3 Monoclonal Antibody PE Conjugated, Flow Validated (Catalog# FC02675-PE-1). Tested in Flow Cytometry application(s). This antibody reacts with Human.
Conjugate	PE
Application	Flow Cytometry
Clonality	Monoclonal Clone: UCHT1
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

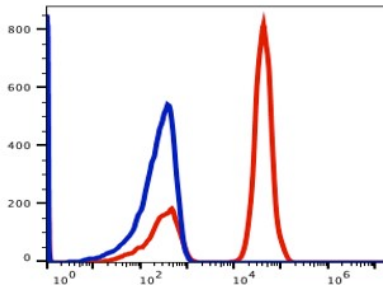
Uniprot ID

P07766

Technical Details

Immunogen	Thymocytes and peripheral blood lymphocytes from a Sézary Syndrome donor
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 CD3 Monoclonal Antibody PE Conjugated, Flow Validated (FC02675-PE-1) Images



PBMCs lymphocytes stained with PE conjugated anti-human CD3 (clone UCHT1) (red histogram). PBMCs lymphocytes stained with PE conjugated mouse IgG1 isotype control (Blue histogram).

1 Publications Citing This Product

1. PubMed ID: 20470401, Li Y, Geng S, Yin Q, Chen S, Yang L, Wu X, Li B, Du X, Schmidt Ca, Przybylski Gk. J Transl Med. 2010 May 14;8:47. Doi: 10.1186/1479-5876-8-47. Decreased Level Of Recent Thymic Emigrants In Cd4+ And Cd8+T Cells From Cml Patients.

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