

Anti-Human CD44 Monoclonal Antibody FITC Conjugated, Flow Validated

Catalog Number: FC00052-FITC

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 100µl of whole blood. It is recommended that antibody reactivity be empirically titrated for optimal performance in the application of interest.

About CD44

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

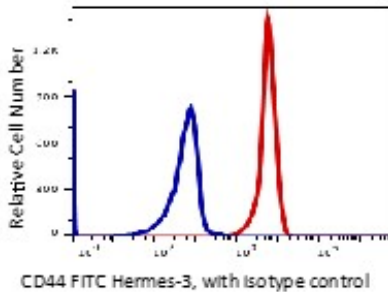
Product Name	Anti-Human CD44 Monoclonal Antibody FITC Conjugated, Flow Validated
Reactive Species	Human
Description	Boster Bio Anti-Human CD44 Monoclonal Antibody FITC Conjugated, Flow Validated (Catalog# FC00052-FITC). Tested in Flow Cytometry application(s). This antibody reacts with Human.
Conjugate	FITC
Application	Flow Cytometry
Clonality	Monoclonal Clone: Hermes-3
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	P16070
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Technical Details

Immunogen	CD44 recombinant protein
Predicted Reactive Species	Bovine, Canine
Isotype	IgG2a,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 CD44 Monoclonal Antibody FITC Conjugated, Flow Validated (FC00052-FITC) Images



Lymphocytes gated PBMCs stained with FITC conjugated anti-human CD44 (clone Hermes-3) (red histogram). Lymphocytes gated PBMCs stained with FITC conjugated mouse IgG2a isotype control (Blue histogram). The data are generated by BD Accuri C6 Flow Cytometer and analyzed by using FlowJo software.

2 Publications Citing This Product

1. PubMed ID: 26339250, Rat nasal respiratory mucosa-derived ectomesenchymal stem cells differentiate into Schwann-like cells promoting the differentiation of PC12 cells and %u2026

2. PubMed ID: 28524540, Antineoplastic effects of clove buds (*Syzygium aromaticum* L.) in the model of breast carcinoma

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