

Anti-human CD71 TFRC Monoclonal Antibody PE Conjugated, Flow Validated

Catalog Number: FC00591-PE

Introduction

The antibody is directed against the transferrin receptor (CD71), the 95 kDa, type II membrane glycoprotein. CD71 is expressed on activated, but not resting lymphocytes, monocytes, macrophages, most dividing cells and on brain endothelium, and is upregulated during response to antigens and/or mitogens. The transferrin receptor binds Fe (Apo)-transferrin and via endocytosis and delivers iron required by the growing cell for cellular metabolism.

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 TFRC

CD71 is also known as transferrin receptor (TFRC). Nikinmaa and Schroder (1987) concluded that p90 and TFRC are the same protein: studies using monoclonal antibodies indicated that exhaustive precipitation of radioactively labeled lysates with one antibody removed all activity of lysates with the other. Peptide maps of antigens recognized with both antibodies showed great similarity and indicated that both antibodies react with the same antigen, the human transferrin receptor, but with different antigenic sites of the molecule. TFR is assigned to chromosome 3.

Overview

Product Name	Anti-human CD71 TFRC Monoclonal Antibody PE Conjugated, Flow Validated
Reactive Species	Human
Description	Boster Bio Anti-human CD71 TFRC Monoclonal Antibody PE Conjugated, Flow Validated (Catalog# FC00591-PE). Tested in Flow Cytometry application(s). This antibody reacts with Human.
Conjugate	PE
Application	Flow Cytometry
Clonality	Monoclonal Clone: OKT9
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

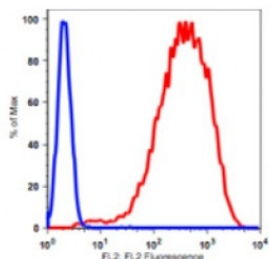
Uniprot ID

P02786

Technical Details

Immunogen	Human acute lymphoblastic leukaemia cells
Predicted Reactive Species	Bovine, Canine
Isotype	IgG1,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 CD71 TFRC Monoclonal Antibody PE Conjugated, Flow Validated (FC00591-PE) Images



Jurkat E6.1 cell lines stained with anti-human CD71 PE (clone OKT9) (red histogram). Jurkat E6.1 cell lines stained with IgG1 MOPC-31C PE isotype control (blue histogram)

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