

Anti-CFTR Antibody

Catalog Number: A00028

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 quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is $\leq 0.5\mu\text{g}$ per 1×10^6 cells in $100\mu\text{l}$ of staining volume followed by a secondary fluorescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

About CFTR

The cystic fibrosis transmembrane conductance regulator (CFTR) protein is a member of the ATP-binding cassette (ABC) transporter superfamily, and a member of the MRP subfamily that is involved in multi-drug resistance (1,2). CFTR functions as a chloride channel and controls the regulation of other transport pathways (3). Mutations in this gene are associated with the autosomal recessive disorder cystic fibrosis, the most common, fatal, inherited disease of caucasian populations (1).

Overview

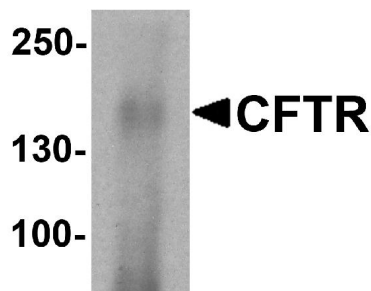
Product Name	Anti-CFTR Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CFTR Antibody (Catalog # A00028). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	APC
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal SK7
Formulation	CFTR Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	CFTR antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit

Uniprot ID	P13569
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Technical Details

Immunogen	CFTR antibody was raised against an 18 amino acid peptide near the carboxy terminus of human CFTR. The immunogen is located within amino acids 1290 - 1340 of CFTR.
Predicted Reactive Species	Bovine, Guinea Pig, Horse, Pig, Rabbit, Sheep
Cross Reactivity	CFTR antibody is human, mouse and rat reactive.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	CFTR antibody is affinity chromatography purified via peptide column.
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>CFTR antibody can be used for detection of CFTR by Western blot at 1 - 2 ug/ml. Antibody can also be used for Immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

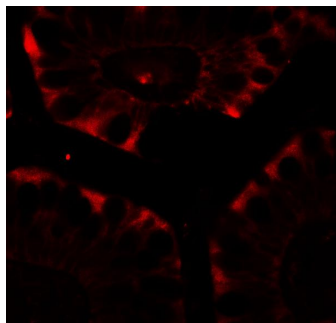
Anti-CFTR Antibody (A00028) Images



Western blot analysis of CFTR in human small intestine tissue lysate with CFTR antibody at 1 ug/ml.



Immunohistochemistry of CFTR in human small intestine tissue with CFTR antibody at 5 ug/mL.



Immunofluorescence of CFTR in human small intestine tissue with CFTR antibody at 20 ug/mL.

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