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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) Monoclonal Antibody

Catalog Number: M00028

About CFTR

Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR). CFTR is composed of two membrane-spanning domains (MSD), two nucleotide-binding domains (NBD), and an R domain. It is structurally similar to multidrug resistance (Mdr1) protein and both are members of the superfamily of ATP-binding cassette (ABC) transporters, also known as traffic ATPases, which are implicated in the movement of various substrates. The CFTR protein is a small conductance adenosine 3',5'-cyclic monophosphate (cAMP)-activated chloride ion channel found in the apical membranes of epithelia within the pancreas, airway, intestine, bile duct, sweat gland, and male genital ducts. CFTR is a valuable marker of human pancreatic duct cell development and differentiation.

Overview

Product Name	Anti-CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) Monoclonal Antibody (Catalog # M00028). Tested in IF, WB, IHC applications. This antibody reacts with Human, Mouse.
Conjugate	Biotin
Application	IF, IHC, WB
Clonality	Monoclonal Clone: SPM176
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P13569

Technical Details

Immunogen	Recombinant human CFTR fragment
Predicted Reactive Species	Chimpanzee
Isotype	IgG2a, kappa
Form	Liquid

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Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunofluorescence (1-2ug/ml) Western Blot (1-2ug/ml) Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues is enhanced by heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0 for 45 min at 95&degC followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

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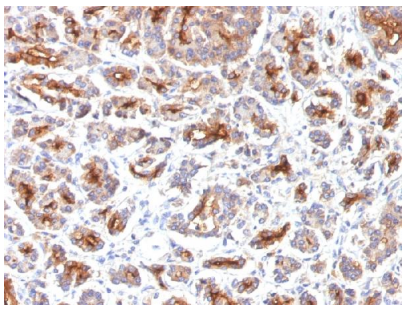
Anti-CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) Monoclonal Antibody (M00028) Images



Formalin-fixed, paraffin-embedded Human Pancreas stained with Anti-CFTR Monoclonal Antibody (SPM176).