

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

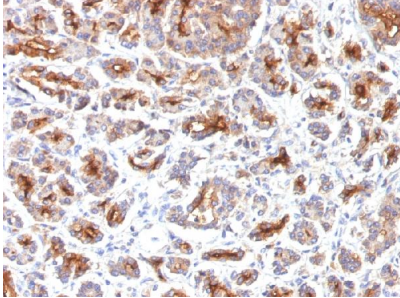
Product Name	Anti-CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) Monoclonal Antibody (Catalog # M00028). Tested in IF, WB, IHC applications. This antibody 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

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	<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>Immunofluorescence (1-2ug/ml)</p> <p>Western Blot (1-2ug/ml)</p> <p>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.</p>

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



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

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