



Datasheet for ABIN6939092 **anti-CFTR antibody (AA 258-385)**



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Overview

Quantity:	100 µg
Target:	CFTR
Binding Specificity:	AA 258-385
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CFTR antibody is un-conjugated
Application:	Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant fragment (around aa 258-385) of human CFTRprotein (exact sequence is proprietary)
Clone:	CFTR-1643
Isotype:	IgG2b
Specificity:	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

Product Details

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.

Cross-Reactivity (Details): Human,

Purification: 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G.

Target Details

Target: CFTR

Alternative Name: CFTR ([CFTR Products](#))

Background: ABC35, ATP Binding Cassette Superfamily C Member 7 (ABCC7), cAMP-dependent chloride channel, CFTR/MRP, Channel conductance-controlling ATPase, Cystic Fibrosis Transmembrane Conductance Regulator, MRP7, TNR CFTR,CFTR (Cystic Fibrosis Transmembrane Conductance Regulator)
Cellular localisation: Cell surface. Cytoplasm.

Molecular Weight: 165-170kDa

Gene ID: 1080, 489786, 621460

UniProt: [P13569](#)

Application Details

Application Notes: Positive Control: MOLT-4 cells. Human pancreas, kidney or placenta.
Known Application: Flow Cytometry (1-2 µg/million cells),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

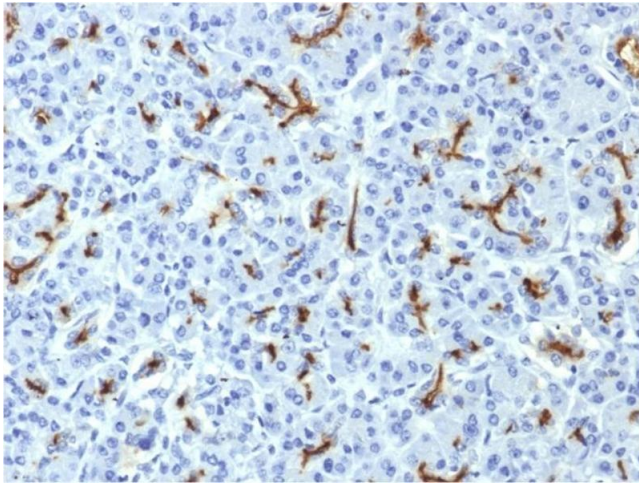
Handling

Storage: 4 °C, -80 °C

Storage Comment: Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.

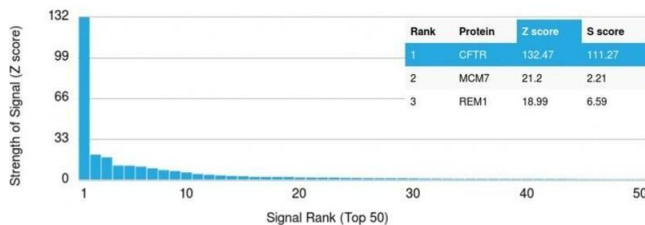
Expiry Date: 24 months

Images



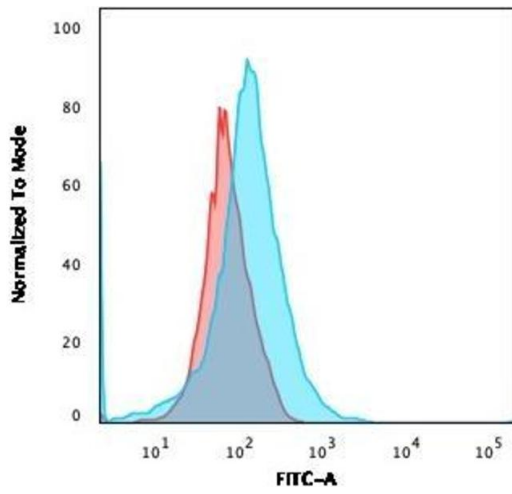
Immunohistochemistry

Image 1. Formalin-fixed, paraffin-embedded human Pancreas stained with CFTR Mouse Monoclonal Antibody (CFTR/1643).



Protein Array

Image 2. Analysis of Protein Array containing >19,000 full-length human proteins using CFTR Mouse Monoclonal Antibody (CFTR/1643) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to be specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to



protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.

Flow Cytometry

Image 3. Flow Cytometric Analysis of MOLT-4 cells using CFTR Mouse Monoclonal Antibody (CFTR/1643) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).