Datasheet for ABIN6939090

anti-CFTR antibody

2 Images

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Overview

Quantity:	100 µg
Target:	CFTR
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CFTR antibody is un-conjugated
Application:	Immunostaining (ISt), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant human CFTR fragment
Clone:	CFTR-1342
Isotype:	IgG2a
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 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.

Product Details

Cross-Reactivity (Details):	Human, Mouse,
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, CFTR/MRP, Channel conductance-controlling ATPase, Cystic Fibrosis Transmembrane Conductance Regulator, MRP7, TNR CFTR,CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) Cellular localisation: Cell Surface and Cytoplasmic
Molecular Weight:	165-170kDa
Gene ID:	1080, 489786, 621460
UniProt:	P13569

Application Details

Application Notes:	Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta. Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues is enhanced by heating tissue sections in 10 mM Tris with 1 mM 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.
Restrictions:	For Research Use only

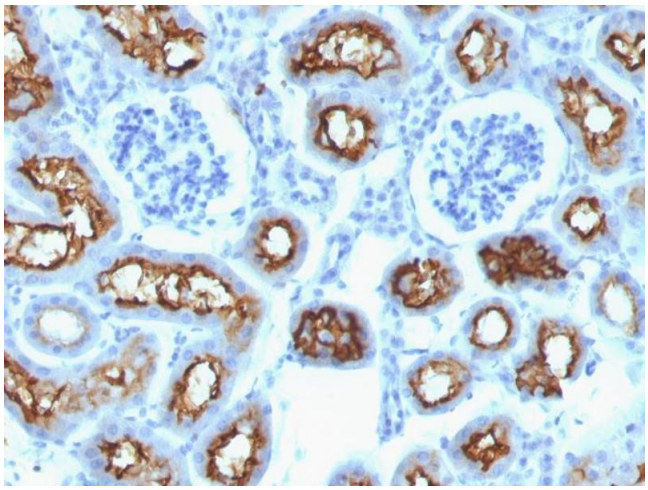
Handling

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.
Storage:	4 °C,-80 °C

Handling

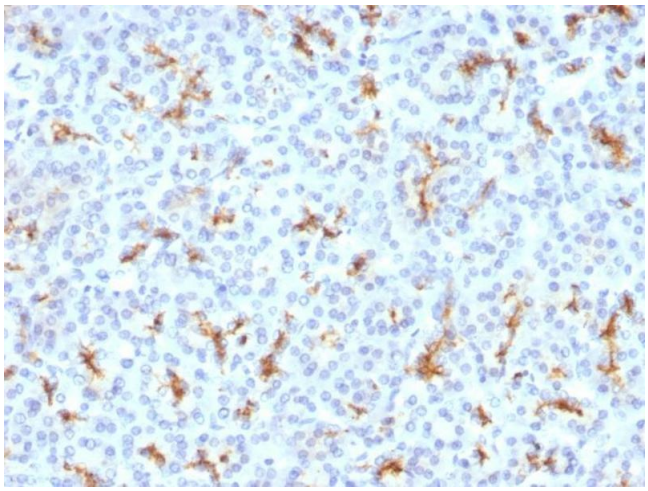
Storage Comment:	Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.
Expiry Date:	24 months

Images



Immunohistochemistry

Image 1. Formalin-fixed, paraffin-embedded Mouse Kidney stained with CFTR Monoclonal Antibody (CFTR/1342).



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Pancreas stained with CFTR Monoclonal Antibody (CFTR/1342).

