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anti-CFTR antibody





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Overview

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

Product Details

Immunogen:

Clone:	SPM176
Isotype:	lgG2a
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.

Recombinant human CFTR fragment

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** Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta. **Application Notes:** Known Application: Immunofluorescence (1-2 μg/mL), Western Blot (1-2 μg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalinfixed tissues is enhanced by 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

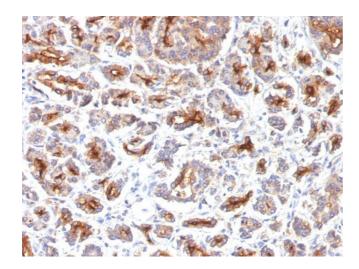
Concentration: 200 μg/mL Buffer: Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide. Preservative: Sodium azide Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. Storage: 4 °C,-80 °C

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 human
Pancreas stained with CFTR Monoclonal Antibody
(SPM176).