

## CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) Antibody

Mouse Monoclonal Antibody [Clone SPM176]

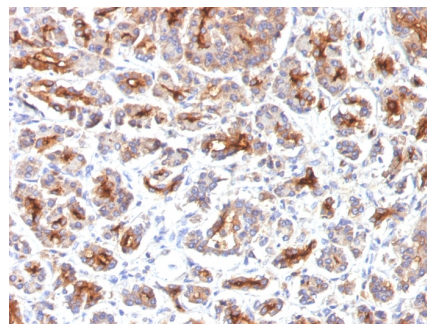
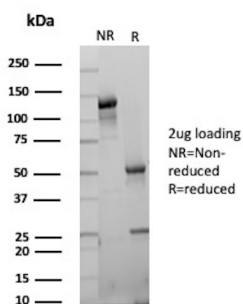
Catalog No	Format	Size
1080-MSM2X-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1080-MSM2X-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1080-MSM2X-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details	
Clone	SPM176
Gene Name	CFTR
Immunogen	Recombinant human CFTR fragment
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	165-170kDa
Cellular Localization	Apical cell membrane, Cell membrane, Early endosome membrane, Endoplasmic reticulum membrane, Nucleus, Recycling endosome membrane
Species Reactivity	Human, Mouse
Positive Control	Kidney or Placenta., MOLT-4 cells. Pancreas

\*Optimal dilution for a specific application should be determined.

### Product Images for CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) Antibody



SDS-PAGE Analysis of Purified CFTR Mouse Monoclonal Antibody (SPM176). Confirmation of Purity and Integrity of Antibody.

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

### **Specificity & Comments**

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.

---

### **Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

---

### **Supplied As**

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

---

### **Storage and Stability**

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.

---

### **Research Areas**

Cardiovascular, Infectious Disease, Signal Transduction, Stem Cell Differentiation

---