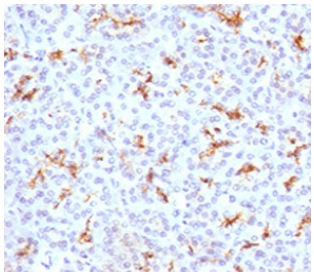
CFTR Antibody [clone CFTR1-1] (V7216)

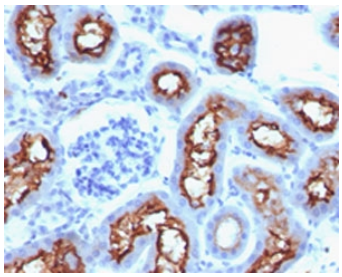
Catalog No.	Formulation	Size
V7216-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7216-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7216SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Species Reactivity	Human, Mouse
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	CFTR1-1
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	P13569
Localization	Cell surface, cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CFTR antibody is available for research use only.



IHC testing of FFPE human pancreas with CFTR antibody (clone CFTR1-1). Staining of FFPE tissue is enhanced by boiling tissue sections in 10mM Tris with 1mM EDTA, pH9 for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE mouse kidney with CFTR antibody (clone CFTR1-1). Staining of FFPE tissue is enhanced by boiling tissue sections in 10mM Tris with 1mM EDTA, pH9 for 10-20 min followed by cooling at RT for 20 min.

Description

Cystic fibrosis transmembrane conductance regulator (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 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.

This CFTR antibody is part of a broader CFTR antibody panel offered by NSJ Bioreagents.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the CFTR antibody to be titered up or down for optimal performance.

Immunogen

Human recombinant protein from the C-terminal region (within amino acids 1350-1480) was used as the immunogen for this CFTR antibody.

Storage

Store the CFTR antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).