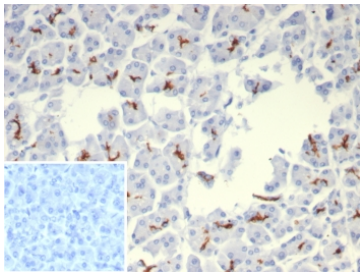
Cystic Fibrosis Transmembrane Regulator Antibody / CFTR [clone rCFTR/8048] (V5214)

Catalog No.	Formulation	Size
V5214-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5214-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5214SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant | MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rCFTR/8048
Purity	Protein A/G affinity
UniProt	P13569
Localization	Cell surface, Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Cystic Fibrosis Transmembrane Regulator antibody is available for research use only.



IHC staining of FFPE human pancreas tissue with Cystic Fibrosis Transmembrane Regulator antibody (clone rCFTR/8048). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

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.

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

Application Notes

Optimal dilution of the Cystic Fibrosis Transmembrane Regulator antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 550-850) from the human protein was used as the immunogen for the Cystic Fibrosis Transmembrane Regulator antibody.

Storage

Aliquot the Cystic Fibrosis Transmembrane Regulator antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.