

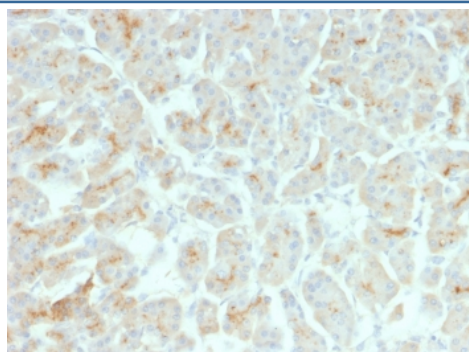
## Recombinant CFTR Antibody [clone rCFTR/1342] (V3552)

Catalog No.	Formulation	Size
V3552-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3552-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3552SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3552IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

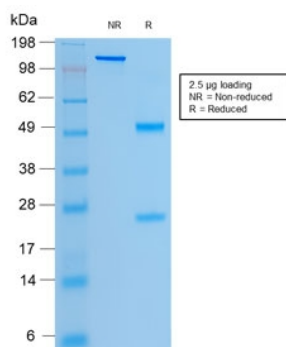
Recombinant **MOUSE MONOCLONAL**

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<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Recombinant Mouse Monoclonal
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	rCFTR/1342
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P13569
<b>Gene ID</b>	1080
<b>Localization</b>	Cell surface, cytoplasmic
<b>Applications</b>	Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
<b>Limitations</b>	This recombinant CFTR antibody is available for research use only.



IHC testing of FFPE human pancreas with recombinant CFTR antibody (clone rCFTR/1342). HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH9 for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant CFTR antibody (clone rCFTR/1342) as confirmation of integrity and purity.

## Description

CFTR functions as an ATP-gated anion channel, increasing the conductance for certain anions (e.g. Cl<sup>-</sup>) to flow down their electrochemical gradient. ATP-driven conformational changes in CFTR open and close a gate to allow transmembrane flow of anions down their electrochemical gradient.[5] This in contrast to other ABC proteins, in which ATP-driven conformational changes fuel uphill substrate transport across cellular membranes. Essentially, CFTR is an ion channel that evolved as a 'broken' ABC transporter that leaks when in open conformation. CFTR is found in the epithelial cells of many organs including the lung, liver, pancreas, digestive tract, and the reproductive tract. [Wiki]

## Application Notes

Optimal dilution of the recombinant CFTR antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

A recombinant human partial protein was used as the immunogen for this recombinant CFTR antibody.

## Storage

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