

DATASHEET

CFTR Rabbit Polyclonal Antibody

CAT. NO. APA09177

KEY FEATURES

Target	CFTR	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey, Rabbit	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

BACKGROUND

Epithelial ion channel that plays an important role in the regulation of epithelial ion and water transport and fluid homeostasis . Mediates the transport of chloride ions across the cell membrane . Possesses an intrinsic ATPase activity and utilizes ATP to gate its channel; the passive flow of anions through the channel is gated by cycles of ATP binding and hydrolysis by the ATP-binding domains . The ion channel is also permeable to HCO₃⁽⁻⁾; selectivity depends on the extracellular chloride concentration . In vitro, mediates ATP-dependent glutathione flux . Exerts its function also by modulating the activity of other ion channels and transporters . Plays an important role in airway fluid homeostasis .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to CFTR
Specificity	Recognizes endogenous levels of CFTR protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CFTR. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 168 kD; Observed: 168; 90 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	ABCC7; Cystic fibrosis transmembrane conductance regulator; CFTR; ATP-binding cassette sub-family C member 7; Channel conductance-controlling ATPase; cAMP-dependent chloride channel
Gene Symbol	CFTR
Entrez Gene	1080(Human); 12638(Mouse); 24255(Rat)
SwissProt	P13569(Human); P26361(Mouse); P34158(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

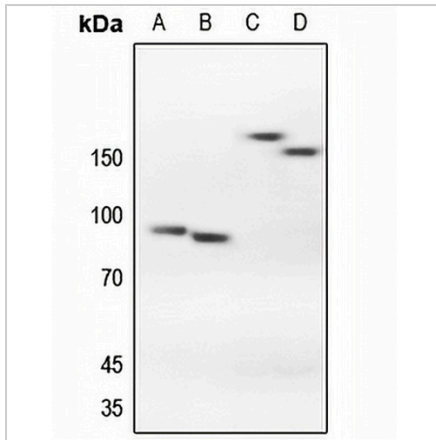
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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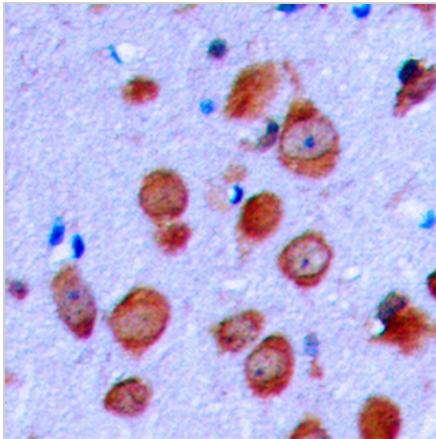
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DATA



Western blot analysis of CFTR expression in HEK293T (A), HeLa (B), rat spleen (C), rat kidney (D) whole cell lysates. (Predicted band size: 168 kD; Observed band size: 168; 90 kD)



Immunohistochemical analysis of CFTR staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.