Datasheet for ABIN7652916

Recombinant anti-CFTR antibody (CF®647)

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Overview

Quantity:	100 µL
Target:	CFTR
Reactivity:	Human, Mouse
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This CFTR antibody is conjugated to CF®647
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))

Product Details

Purpose:	CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) (CFTR/2290R), CF647 conjugate
Immunogen:	Recombinant full-length human CFTR protein
Clone:	CFTR-2290R
Isotype:	IgG
Characteristics:	This antibody recognizes a protein of 165-170 kDa, 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

Product Details

	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.Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	CFTR
Alternative Name:	CFTR
Background:	Synonyms: ABC35, ATP Binding Cassette Superfamily C Member 7 (ABCC7), cAMP-dependent chloride channel, CFTR, CFTR/MRP, Channel conductance-controlling ATPase, Cystic Fibrosis Transmembrane Conductance Regulator, MRP7, TNR CFTR Gene Symbol: CFTR Tissue Expression: Epithelial cells
Molecular Weight:	165-170 kDa
Gene ID:	1080
UniProt:	P13569

Application Details

Application Notes:	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Immunohistology (formalin): 0.5-1.0 µg/mL for 30 minutes at RT. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM Tris with 1 mM EDTA pH 9.0 for 10-20 minutes followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined by user
Comment:	Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.1 mg/mL
Buffer:	PBS, 0.1 % BSA, 0.05 % azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Protect from light
Storage:	4 °C
Storage Comment:	Stable at room temperature or 37°C for 7 days. Protect from light Store at 2 to 8°C. Protect fluorescent conjugates from light
Expiry Date:	24 months