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Product datasheet

Anti-CFTR antibody [SPM176] - BSA and Azide free ab234037

1 Image

Overview

Product name	Anti-CFTR antibody [SPM176] - BSA and Azide free
Description	Mouse monoclonal [SPM176] to CFTR - BSA and Azide free
Host species	Mouse
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Recombinant full length protein corresponding to Human CFTR. Database link: P13569
Positive control	Human pancreas tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Constituent: 99% PBS
Carrier free	Yes
Purity	Protein A/G purified
Purification notes	ab234037 is purified from Bioreactor Concentrate by Protein A/G.
Clonality	Monoclonal
Clone number	SPM176
Isotype	IgG2a

Applications

Our Abpromise guarantee covers the use of **ab234037** in the following tested applications.

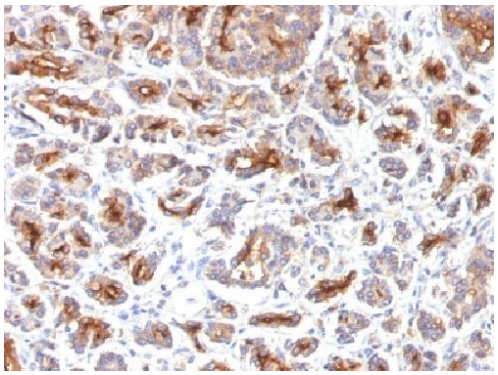
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function	Involved in the transport of chloride ions. May regulate bicarbonate secretion and salvage in epithelial cells by regulating the SLC4A7 transporter.
Tissue specificity	Found on the surface of the epithelial cells that line the lungs and other organs.
Involvement in disease	Defects in CFTR are the cause of cystic fibrosis (CF) [MIM:219700]; also known as mucoviscidosis. CF is the most common genetic disease in the Caucasian population, with a prevalence of about 1 in 2'000 live births. Inheritance is autosomal recessive. CF is a common generalized disorder of exocrine gland function which impairs clearance of secretions in a variety of organs. It is characterized by the triad of chronic bronchopulmonary disease (with recurrent respiratory infections), pancreatic insufficiency (which leads to malabsorption and growth retardation) and elevated sweat electrolytes. Defects in CFTR are the cause of congenital bilateral absence of the vas deferens (CBAVD) [MIM:277180]. CBAVD is an important cause of sterility in men and could represent an incomplete form of cystic fibrosis, as the majority of men suffering from cystic fibrosis lack the vas deferens.
Sequence similarities	Belongs to the ABC transporter superfamily. ABCC family. CFTR transporter (TC 3.A.1.202) subfamily. Contains 2 ABC transmembrane type-1 domains. Contains 2 ABC transporter domains.
Domain	The PDZ-binding motif mediates interactions with GOPC and with the SLC4A7, SLC9A3R1/EBP50 complex.
Post-translational modifications	Phosphorylated; activates the channel. It is not clear whether PKC phosphorylation itself activates the channel or permits activation by phosphorylation at PKA sites. Ubiquitinated, leading to its degradation in the lysosome. Deubiquitination by USP10 in early endosomes, enhances its endocytic recycling.
Cellular localization	Early endosome membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CFTR antibody [SPM176] - BSA and Azide free (ab234037)

This IHC-P data was generated using the same anti-CFTR antibody clone SPM176 in a different buffer formulation (cat# ab217887)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human pancreas tissue labeling CFTR with ab217887 at 1 µg/mL.

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