

# Mouse CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) Monoclonal Antibody | anti-CFTR antibody

CFTR (Cystic Fibrosis Transmembrane Conductance Regulator)

| CATALOG # | HOST  | REACTIVITY               | APPLICATIONS                             |
|-----------|-------|--------------------------|------------------------------------------|
| AAA62918  | Mouse | Human. Others not known. | Immunohistochemistry, Immunofluorescence |

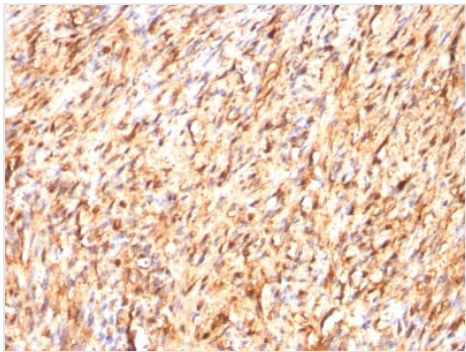
## PRODUCT SYNONYMS

CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Monoclonal Antibody; 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; anti-CFTR antibody

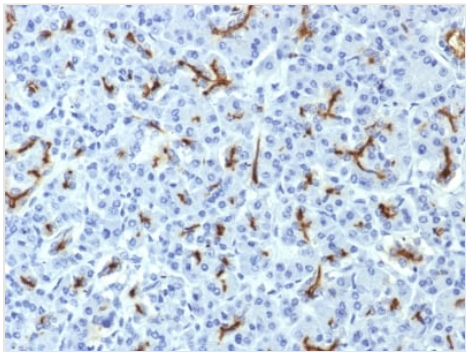
## PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Reactivity                                     | Human. Others not known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Isotype                                        | IgG2b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Clone Number                                   | CFTR/1643                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity                                    | 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. |
| Form/Format                                    | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence Length                                | 1480                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-CFTR antibody | IHC (Immunohistochemistry), IF (Immunofluorescence)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Immunogen                                      | Recombinant human CFTR fragment (aa258-385)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Cellular Localization                          | Cell Surface and Cytoplasmic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Hu-chromosome Location                         | 7q31.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Positive Control                               | MOLT-4 cells. Pancreas, Kidney or Placenta.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Preparation and Storage                        | Antibody with azide - store at 2 to 8 degree C.<br>Antibody without azide - store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

IMAGES



IHC (Immunohistochemistry)  
Formalin-fixed, paraffin-embedded human Schwannoma stained with S100B Mouse Monoclonal Antibody (S100B/1012).



IHC (Immunohistochemistry)  
Formalin-fixed, paraffin-embedded Human Pancreas stained with CFTR Monoclonal Antibody (CFTR/1643).

ADDITIONAL INFORMATION

|            |                                                                                                                                                      |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | s Riordan, J.R., et al. 1989. Identification of the cystic fibrosis gene: cloning and characterization of complementary DNA. Science 245: 1066-1073. |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| NCBI GI #                        | 90421313                                              |
| NCBI GeneID                      | 1080                                                  |
| NCBI Accession #                 | NP_000483.3                                           |
| NCBI GenBank Nucleotide #        | NM_000492.3                                           |
| UniProt Accession #              | P13569; Q20BG8; Q20BH2; Q2I0A1; Q2I102                |
| Molecular Weight                 | 165-170kDa                                            |
| NCBI Official Full Name          | cystic fibrosis transmembrane conductance regulator   |
| NCBI Official Synonym Full Names | cystic fibrosis transmembrane conductance regulator   |
| NCBI Official Symbol             | CFTR                                                  |
| NCBI Official Synonym Symbols    | CF; MRP7; ABC35; ABCC7; CFTR/MRP; TNR-CFTR; dJ760C5.1 |
| NCBI Protein Information         | cystic fibrosis transmembrane conductance regulator   |
| UniProt Protein Name             | Cystic fibrosis transmembrane conductance regulator   |
| UniProt Gene Name                | CFTR                                                  |
| UniProt Synonym Gene Names       | ABCC7; CFTR                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cftr-cystic-fibrosis-transmembrane-conductance-regulator-antibody-clone-cftr-1643-immunohistochemistry-immunofluorescence-elisa/62918>