

Datasheet for ABIN7652934

**Recombinant anti-CFTR antibody (CF®488A)**[Go to Product page](#)

## 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®488A                                                             |
| Application:   | Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp)) |

## Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) (CFTR/2290R), CF488A 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<br>Gene Symbol: CFTR<br>Tissue Expression: Epithelial cells |
| Molecular Weight: | 165-170 kDa                                                                                                                                                                                                                                                                                    |
| Gene ID:          | 1080                                                                                                                                                                                                                                                                                           |
| UniProt:          | <a href="#">P13569</a>                                                                                                                                                                                                                                                                         |

## Application Details

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| 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.<br>Protect from light<br>Store at 2 to 8°C. Protect fluorescent conjugates from light |
| Expiry Date:       | 24 months                                                                                                                            |