

## 12-1015: Recombinant Rabbit Monoclonal Antibody to CFTR (Cystic Fibrosis Transmembrane Conductance Regulator)(Clone : CFTR/1775R)

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal   |
| <b>Clone Name :</b>            | CFTR/1775R   |
| <b>Application :</b>           | IHC  |
| <b>Reactivity :</b>            | Human  |
| <b>Gene :</b>                  | CFTR   |
| <b>Gene ID :</b>               | 1080   |
| <b>Uniprot ID :</b>            | P13569   |
| <b>Format :</b>                | Purified   |
| <b>Alternative Name :</b>      | 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 |
| <b>Isotype :</b>               | Rabbit IgG   |
| <b>Immunogen Information :</b> | Recombinant human CFTR fragment (aa258-385) (exact sequence is proprietary)  |

### Description

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.

### Product Info

|                            |  |
|----------------------------|--|
| <b>Amount :</b>            | 20 µg / 100 µg   |
| <b>Purification :</b>      | Purified Ab with BSA and Azide at 200ug/ml   |
| <b>Content :</b>           | 200ug/ml of Ab purified by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| <b>Storage condition :</b> | Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.            |

### Application Note

Immunohistochemistry (Formalin-fixed) (1-2 µg/ml for 30 minutes at RT)(Staining of formalin-fixed tissues is enhanced by heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0 for 45 min at 95°C followed by cooling at RT for 20 minutes).

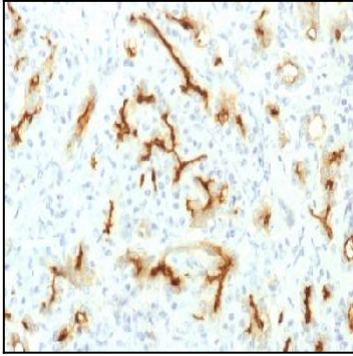


Figure 1: Formalin-fixed, paraffin-embedded Human Pancreas stained with CFTR Rabbit Recombinant Monoclonal Antibody (CFTR/1775R).

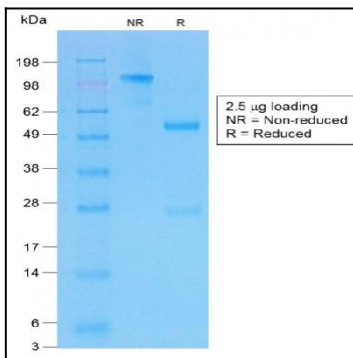


Figure 2: SDS-PAGE Analysis of Purified CFTR Rabbit Recombinant Monoclonal Antibody (CFTR/1775R).