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

Monoclonal Clonality: Clone Name: CFTR/1775R

Application: IHC Reactivity: Human **CFTR** Gene: Gene ID: 1080 **Uniprot ID:** P13569 Format: Purified

ABC35, ATP Binding Cassette Superfamily C Member 7 (ABCC7), cAMP-dependent chloride

Alternative Name: channel, CFTR, CFTR/MRP, Channel conductance-controlling ATPase, Cystic Fibrosis

Transmembrane Conductance Regulator, MRP7, TNR CFTR

Rabbit IgG Isotype:

Immunogen Information: 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

Amount: $20 \mu g / 100 \mu g$

Purification: Purified Ab with BSA and Azide at 200ug/ml

200ug/ml of Ab purified by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Content:

Also available WITHOUT BSA & azide at 1.0mg/ml.

Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid Storage condition:

repeated freeze and thaw cycles.

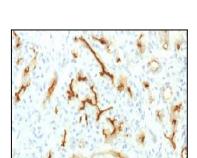
Application Note

Immunohistochemistry (Formalin-fixed) (1-2µg/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).





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

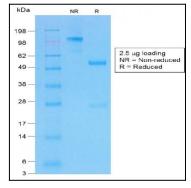


Figure 2: SDS-PAGE Analysis of Purifed CFTR Rabbit Recombinant Monoclonal Antibody (CFTR/1775R).