

## CFTR Monoclonal Antibody (L12B4)

Catalog Number MA5-11763

Product Data Sheet

Details		Species Reactivity	
Size	500 µL	Tested species reactivity	Human, Mouse, Rat
Host / Isotype	Mouse IgG1	Published Species Reactivity	Human
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Immunofluorescence (IF)	Assay Dependent
Clone	L12B4	Immunoprecipitation (IP)	Assay Dependent
Immunogen	Recombinant protein encoding NBF1 domain of human CFTR	Western Blot (WB)	Assay Dependent
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Western Blot (WB)	See 2 publications below
Concentration	0.2mg/mL	Immunocytochemistry (ICC)	See 1 publications below
Purification	Protein G	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage Buffer	PBS, pH 7.4, with 0.2% BSA		
Contains	0.09% sodium azide		
Storage Conditions	4° C		

### Product Specific Information

MA5-11763 targets Cystic Fibrosis Transmembrane Regulator in IF, IP, and WB applications and shows reactivity with Human, mouse, and Rat samples.

The MA5-11763 immunogen is recombinant protein encoding NBF1 domain of human CFTR.

### Background/Target Information

CFTR (cystic fibrosis transmembrane conductance regulator) 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.

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