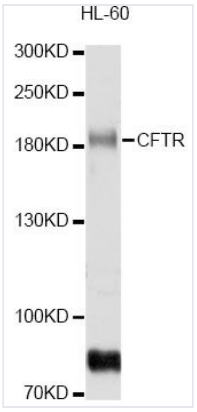
CFTR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CFTR, Polyclonal Antibody
Full Product Name	CFTR Polyclonal Antibody
Product Gene Name	anti-CFTR antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Molecular Weight	168kDa
OMIM	219700
3D Structure	ModBase 3D Structure for P13569
Immunogen	Recombinant protein of human CFTR
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CFTR antibody	Western Blot (WB)
Application Notes for anti-CFTR antibody	WB 1:500 - 1:2000
Related Product Information for anti-CFTR antibody	This gene encodes a member of the ATP-binding cassette (ABC) transporter superfamily. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MRP subfamily that is involved in multi-drug resistance. The encoded protein functions as a chloride channel and controls the regulation of other transport pathways. Mutations in this gene are associated with the autosomal recessive disorders cystic fibrosis and congenital bilateral aplasia of the vas deferens. Alternatively spliced transcript variants have been described, many of which result from mutations in this gene.
Other Notes	Small volumes of anti-CFTR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CFTR purchase	MBS9128142 is an antibody targeting CFTR. Also known as CFTR Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-CFTR antibody
Western blot analysis of extracts of HL-60 cells, using CFTR antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Enhanced Kit.Exposure time: 60s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CFTR. It may not necessarily be applicable to this product.

NCBI GI #	90421313
NCBI GeneID	1080
NCBI Accession #	NP_000483.3
UniProt Primary Accession #	P13569
UniProt Secondary Accession #	Q20BG8; Q20BH2; Q2I0A1; Q2I102
UniProt Related Accession #	P13569
GenBank Nucleotide #	NM_000492.3
NCBI Official Full Name	cystic fibrosis transmembrane conductance regulator
NCBI Official Synonym Full Names	cystic fibrosis transmembrane conductance regulator (ATP-binding cassette sub-family C, member 7)
NCBI Official Symbol	CFTR
NCBI Official Synonym Symbols	CF; MRP7; ABC35; ABCC7; CFTR/MRP; TNR-CFTR; dJ760C5.1
UniProt Protein Name	Cystic fibrosis transmembrane conductance regulator
UniProt Synonym Protein Names	ATP-binding cassette sub-family C member 7; Channel conductance-controlling ATPase (EC:3.6.3.49); cAMP-dependent chloride channel
Protein Family	Cystic fibrosis transmembrane conductance regulator
UniProt Gene Name	CFTR
UniProt Synonym Gene Names	ABCC7; CFTR
UniProt Entry Name	CFTR_HUMAN
NCBI Protein Information	cystic fibrosis transmembrane conductance regulator

UniProt Comments for CFTR	CFTR: a member of the MRP subfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. Functions as a chloride channel and controls the regulation of other transport pathways. Mutations have been observed in patients with the autosomal recessive disorders cystic fibrosis (CF) and congenital bilateral aplasia of the vas deferens (CBAVD). Alternative splice Protein type: EC 3.6.3.49; Transporter, ABC family; Membrane protein, multi-pass; Hydrolase; Transporter; Channel, chloride; Membrane protein, integral Chromosomal Location of Human Ortholog: 7q31.2 Cellular Component: recycling endosome; microvillus; protein complex; cytoplasmic vesicle membrane; cell surface; basolateral plasma membrane; early endosome membrane; apical plasma membrane; early endosome; cytoplasm; plasma membrane Molecular Function: bicarbonate transmembrane transporter activity; chloride channel activity; protein binding; enzyme binding; chloride channel inhibitor activity; chloride transmembrane transporter activity; channel-conductance-controlling ATPase activity; ATP-binding and phosphorylation-dependent chloride channel activity; ATP binding; PDZ domain binding Biological Process: intracellular pH elevation; response to drug; response to peptide hormone stimulus; cholesterol transport; iodide transport; water transport; transepithelial chloride transport; membrane hyperpolarization; respiratory gaseous exchange; positive regulation of vasodilation; cholesterol biosynthetic process; vasodilation; cellular response to hormone stimulus; transport; response to estrogen stimulus; bicarbonate transport; response to cytokine stimulus; transmembrane transport; sperm capacitation; lung development Disease: Vas Deferens, Congenital Bilateral Aplasia Of; Bronchiectasis With Or Without Elevated Sweat Chloride 1; Cystic Fibrosis; Pancreatitis, Hereditary
Research Articles on CFTR	**1.** Functional Architecture of the Cytoplasmic Entrance to the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel Pore
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