

Human Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) ELISA Kit | CFTR elisa kit

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CATALOG #
AAA20425

REACTIVITY
Human

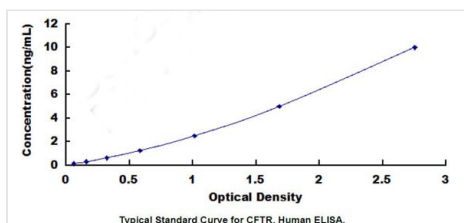
PRODUCT SYNONYMS

Cystic Fibrosis Transmembrane Conductance Regulator (CFTR); Human Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) ELISA Kit; ABC35; ABCC7; CF; CFTR/MRP; MRP7; TNR-CFTR; ATP-Binding Cassette Subfamily C; Member 7; Channel conductance-controlling ATPase; cAMP-dependent chloride channel; CFTR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CFTR. No significant cross-reactivity or interference between CFTR and analogues was observed.
Sequence Length	1480
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.059ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CFTR were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CFTR were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CFTR elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CFTR in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to CFTR. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to CFTR. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CFTR, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of CFTR in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for CFTR elisa kit	Immune molecule

NCBI AND UNIPROT INFORMATION

NCBI GI #	90421313
NCBI GeneID	1080
NCBI Accession #	NP_000483.3
NCBI GenBank Nucleotide #	NM_000492.3
UniProt Accession #	P13569; Q20BG8; Q20BH2; Q2I0A1; Q2I102
Molecular Weight	69,230 Da
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
NCBI Protein Information	cystic fibrosis transmembrane conductance regulator
UniProt Protein Name	Cystic fibrosis transmembrane conductance regulator
UniProt Gene Name	CFTR
UniProt Synonym Gene Names	ABCC7; CFTR
UniProt Entry Name	CFTR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.