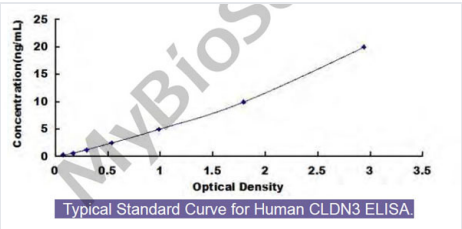
Claudin 3 (CLDN3) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Claudin 3 (CLDN3), ELISA Kit
Full Product Name	Human Claudin 3 (CLDN3) ELISA Kit
Product Gene Name	CLDN3 elisa kit
Product Synonym Names	Calcium-activated neutral proteinase small subunit,Calcium-dependent protease small subunit,Calcium-dependent protease small subunit 1,Calpain regulatory subunit,CANP small subunit
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates or other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.125ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CLDN3. No significant cross-reactivity or interference between CLDN3 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CLDN3 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CLDN3 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	23,319 Da
OMIM	AF007189 Genomic DNA
3D Structure	ModBase 3D Structure for O15551
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CLDN3 elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CLDN3. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CLDN3. 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 CLDN3, 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 CLDN3 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of CLDN3 in human serum, plasma, tissue homogenates or other biological fluids.
Other Notes	Small volumes of CLDN3 elisa kit 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 CLDN3 purchase	MBS451933 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Claudin 3 (CLDN3) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CLDN3. The ELISA analytical biochemical technique of the MBS451933 kit is based on CLDN3 antibody-CLDN3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CLDN3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CLDN3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CLDN3 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLDN3. It may not necessarily be applicable to this product.

NCBI GI #	4502875
NCBI GeneID	1365
NCBI Accession #	NP_001297.1
UniProt Primary Accession #	O15551
UniProt Related Accession #	O15551
GenBank Nucleotide #	NM_001306.3
NCBI Official Full Name	claudin-3
NCBI Official Synonym Full Names	claudin 3
NCBI Official Symbol	CLDN3
NCBI Official Synonym Symbols	RVP1; HRVP1; C7orf1; CPE-R2; CPETR2
UniProt Protein Name	Claudin-3
UniProt Synonym Protein Names	Clostridium perfringens enterotoxin receptor 2; CPE-R 2; CPE-receptor 2; Rat ventral prostate.1 protein homolog; hRVP1
Protein Family	Claudin
UniProt Gene Name	CLDN3
UniProt Synonym Gene Names	C7orf1; CPETR2; CPE-R 2; CPE-receptor 2; hRVP1
NCBI Protein Information	claudin-3
NCBI Summary for CLDN3	Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this intronless gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. It is also a low-affinity receptor for Clostridium perfringens enterotoxin, and shares aa sequence similarity with a putative apoptosis-related protein found in rat. [provided by RefSeq, Jul 2008]
UniProt Comments for CLDN3	Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity.

Research Articles on CLDN3	**1.** localization of Cldn3, Cldn7 and Cldn10 proteins in the different compartments of murine endometrium up to day 8.5 of pregnancy (dpc) as well as in human endometrium and first trimester decidua
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