



Human Claudin 4 (CLDN4)ELISA Kit

Product Code	CSB-E17961h
Abbreviation	CLDN4
Target Name	claudin 4
Uniprot No.	O14493
Alias	CPE-R, CPER, CPETR, CPETR1, WBSCR8, hCPE-R, Clostridium perfringens enterotoxin receptor 1 OTTHUMP00000160507 OTTHUMP00000211778 Williams-Beuren syndrome chromosomal region 8 protein
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	6.25 pg/mL-400 pg/mL
Sensitivity	1.56 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Gene Names	CLDN4
Tag Info	quantitative
Protein Description	Competitive
Description	This Human CLDN4 ELISA Kit was designed for the quantitative measurement of Human CLDN4 protein in serum, plasma, tissue homogenates, cell lysates. It is a Competitive ELISA kit, its detection range is 6.25 pg/mL-400 pg/mL and the sensitivity is 1.56 pg/mL.
Target Details	This gene encodes an integral membrane protein, which belongs to the claudin family. The protein is a component of tight junction strands and may play a role in internal organ development and function during pre- and postnatal life. This gene is deleted in Williams-Beuren syndrome, a neurodevelopmental disorder affecting multiple systems.
Product Precision	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV%<10%



Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human CLDN4 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:1	Average %	94
	Range %	89-97
1:2	Average %	89
	Range %	84-95
1:4	Average %	97
	Range %	92-101
1:8	Average %	99
	Range %	94-103

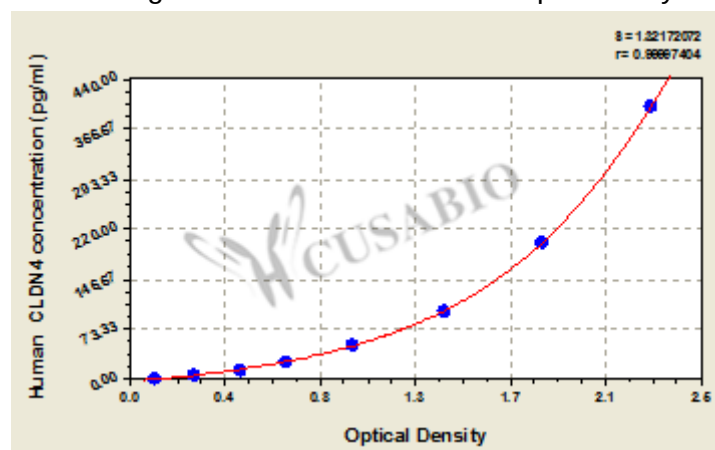
Recovery

The recovery of human CLDN4 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	92	86-97
EDTA plasma (n=4)	85	80-90

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
400	2.334	2.227	2.281	2.165
200	1.858	1.752	1.805	1.689
100	1.389	1.368	1.379	1.263
50	0.972	0.984	0.978	0.862
25	0.698	0.682	0.690	0.574
12.5	0.496	0.485	0.491	0.375
6.25	0.291	0.284	0.288	0.172
0	0.117	0.115	0.116	