



# Mouse Claudin-5(CLDN5) ELISA kit

<b>Product Code</b>	CSB-EL005507MO
<b>Abbreviation</b>	CLDN5
<b>Target Name</b>	claudin 5
<b>Uniprot No.</b>	O54942
<b>Alias</b>	AWAL, BEC1, CPETRL1, TMVCF, OTTHUMP00000197372 OTTHUMP00000197819 androgen withdrawal and apoptosis induced protein RVP1-like transmembrane protein deleted in velocardiofacial syndrome
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Sample Types</b>	serum, plasma, tissue homogenates, cell lysates
<b>Detection Range</b>	18.75 pg/mL-1200 pg/mL
<b>Sensitivity</b>	4.68 pg/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Signal Transduction
<b>Gene Names</b>	Cldn5
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Mouse CLDN5 ELISA Kit was designed for the quantitative measurement of Mouse CLDN5 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 18.75 pg/mL-1200 pg/mL and the sensitivity is 4.68 pg/mL.
<b>Target Details</b>	This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets. Mutations in this gene have been found in patients with velocardiofacial syndrome. Alternatively spliced transcript variants encoding the same protein have been found for this gene.
<b>Product Precision</b>	<b>Intra-assay Precision (Precision within an assay): CV%&lt;8%</b>



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 mouse CLDN5 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 %	101
	Range %	95-104
1:2	Average %	95
	Range %	90-99
1:4	Average %	92
	Range %	87-98
1:8	Average %	92
	Range %	86-97

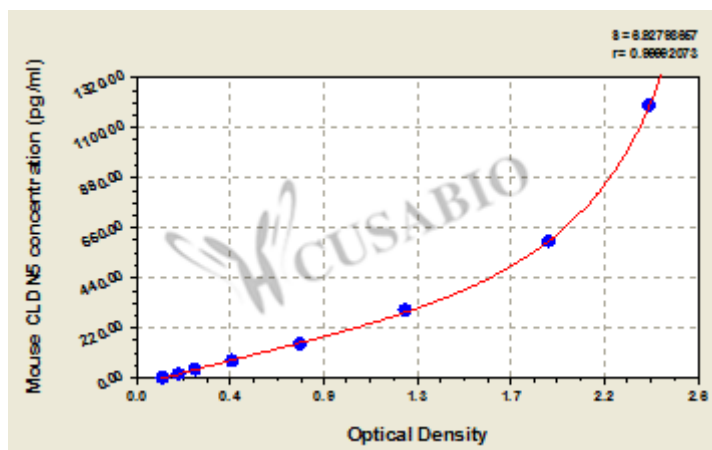
**Recovery**

The recovery of mouse CLDN5 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)	88	83-92
EDTA plasma (n=4)	93	87-98

**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
1200	2.312	2.422	2.367	2.240
600	1.846	1.966	1.906	1.779
300	1.261	1.229	1.245	1.118
150	0.754	0.769	0.762	0.635
75	0.443	0.456	0.450	0.323
37.5	0.271	0.281	0.276	0.149
18.75	0.208	0.202	0.205	0.078
0	0.126	0.128	0.127	?

## Msds

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