Rat Epithelial-Cadherin,E-Cad ELISA Kit

Product Code	CSB-E07308r
Abbreviation	CDH1
Protein Biological Process 1	Cell Adhesion
Target Name	cadherin 1, type 1, E-cadherin (epithelial)
Uniprot No.	Q9R0T4
Alias	Arc-1, CD324, CDHE, ECAD, LCAM, UVO, E-Cadherin|cadherin 1, E-cadherin (epithelial)|cadherin 1, type 1|calcium-dependent adhesion protein, epithelial|cell-CAM 120/80|uvomorulin
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Cell adhesion
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	3.12 ng/mL-200 ng/mL
Sensitivity	0.78 ng/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	Cancer
Gene Names	Cdh1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat CDH1 ELISA Kit was designed for the quantitative measurement of Rat CDH1 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 3.12 ng/mL-200 ng/mL and the sensitivity is 0.78 ng/mL.
Target Details	This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function is thought to contribute to progression in cancer by increasing proliferation, invasion, and/or metastasis.

The ectodomain of this protein mediates bacterial adhesion to mammalian cells and the cytoplasmic domain is required for internalization. Identified transcript variants arise from mutation at consensus splice sites.

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 rat E-Cad 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 %	87
	Range %	85-90
1:2	Average %	102
	Range %	98-106
1:4	Average %	99
	Range %	95-103
1:8	Average %	83
	Range %	80-86

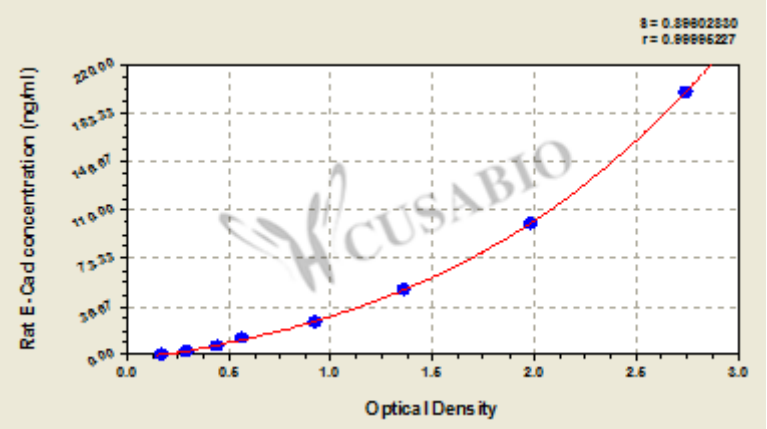
Recovery

The recovery of rat E-Cad 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)	105	101-109
EDTA plasma (n=4)	97	93-100

Typical

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



ng/ml	OD1	OD2	Average	Corrected
200	2.750	2.798	2.774	2.591
100	2.045	1.968	2.007	1.824
50	1.401	1.358	1.380	1.197
25	0.920	0.967	0.944	0.761
12.5	0.576	0.598	0.587	0.404
6.25	0.445	0.468	0.457	0.274
3.12	0.307	0.312	0.310	0.127
0	0.182	0.183	0.183	?

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E07308r.pdf","filename":"MSDS"}}