



Human Collagen alpha-2(IV) chain (COL4A2)

ELISA kit

Product Code	CSB-EL005742HU
Abbreviation	COL4A2
Protein Biological Process 1	Angiogenesis
Target Name	collagen, type IV, alpha 2
Uniprot No.	P08572
Alias	RP11-90L1.2, DKFZp686I14213, FLJ22259, alpha 2 type IV collagen canstatin
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	47 pg/mL-3000 pg/mL
Sensitivity	11.75 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	COL4A2
Tag Info	quantitative
Protein Description	Sandwich
Target Details	This gene encodes one of the six subunits of type IV collagen, the major structural component of basement membranes. The C-terminal portion of the protein, known as canstatin, is an inhibitor of angiogenesis and tumor growth. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter.
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 COL4A2 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)
	Average %	92
1:20	Range %	84-95
	Average %	103
1:40	Range %	96-106
	Average %	89
1:80	Range %	84-92
	Average %	106
1:160	Range %	94-109

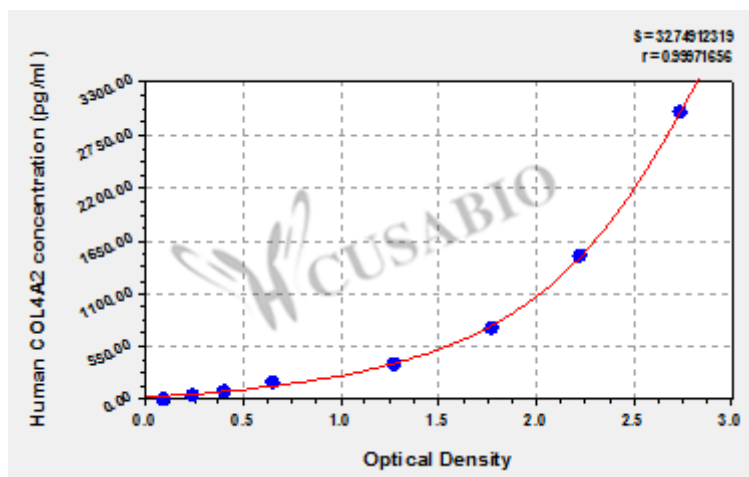
Recovery

The recovery of human COL4A2 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)	101	93-104
EDTA plasma (n=4)	92	85-96

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
3000	2.661	2.761	2.711	2.611
1500	2.168	2.243	2.206	2.106
750	1.774	1.735	1.755	1.655
375	1.289	1.247	1.268	1.168
187.5	0.641	0.665	0.653	0.553
94	0.403	0.411	0.407	0.307
47	0.240	0.246	0.243	0.143
0	0.098	0.102	0.100	?

Msds

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