Mouse Collagen alpha-1(XVIII) chain (COL18A1/ES) ELISA kit

Product Code	CSB-E07974m
Abbreviation	COL18A1/ES
Protein Biological Process 1	Cell Adhesion
Target Name	collagen, type XVIII, alpha 1
Uniprot No.	P39061
Alias	FLJ27325, FLJ34914, KNO, KNO1, MGC74745, alpha 1 type XVIII collagen|antiangiogenic agent|endostatin|multi-functional protein MFP,_x000D_ Collagen alpha-1(X8) chain (COL18A1/ES),_x000D_ Collagen alpha-1(XVIII) chain (COL18A1/ES)
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Cell adhesion
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 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	Signal Transduction
Gene Names	Col18a1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse COL18A1/ES ELISA Kit was designed for the quantitative measurement of Mouse COL18A1/ES protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL .
Target Details	This gene encodes the alpha chain of type XVIII collagen. This collagen is one of the multiplexins, extracellular matrix proteins that contain multiple triple-helix

domains (collagenous domains) interrupted by non-collagenous domains. The proteolytically produced C-terminal fragment of type XVIII collagen is endostatin, a potent antiangiogenic protein. Mutations in this gene are associated with Knobloch syndrome. The main features of this syndrome involve retinal abnormalities, so type XVIII collagen may play an important role in retinal structure and in neural tube closure. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

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 mouse COL18A1/ES in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

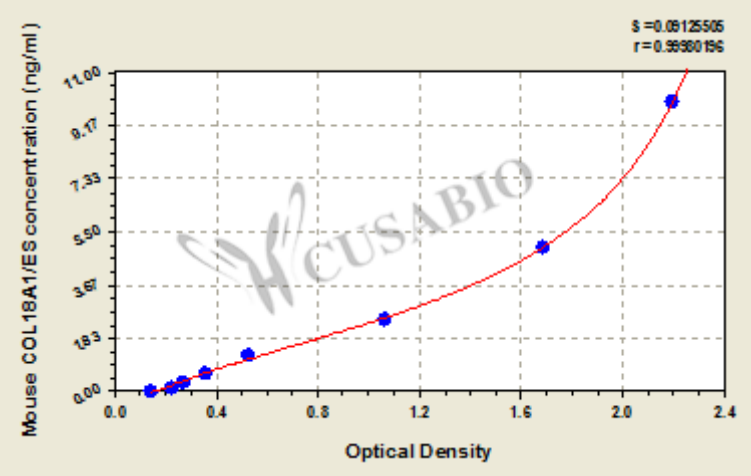
?	Sample	Serum(n=4)
1:1	Average %	92
	Range %	89-95
1:2	Average %	103
	Range %	99-105
1:4	Average %	92
	Range %	87-96
1:8	Average %	99
	Range %	94-101

Recovery

The recovery of mouse COL18A1/ES 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)	95	91-98
EDTA plasma (n=4)	95	91-98

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
10	2.234	2.213	2.224	2.067
5	1.732	1.694	1.713	1.556
2.5	1.091	1.076	1.084	0.927
1.25	0.551	0.537	0.544	0.387
0.625	0.366	0.386	0.376	0.219
0.312	0.292	0.281	0.287	0.130
0.156	0.248	0.228	0.238	0.081
0	0.159	0.155	0.157	?

Msds

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