



Human Matrix metalloproteinase-20(MMP20)

ELISA kit

Product Code	CSB-EL014667HU
Abbreviation	MMP20
Target Name	matrix metalloproteinase 20
Uniprot No.	O60882
Alias	AI2A2, MMP-20, enamel metalloproteinase matrix metalloproteinase 20 matrix metalloproteinase 20 (enamelysin)
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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	MMP20
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human MMP20 ELISA Kit was designed for the quantitative measurement of Human MMP20 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.
Target Details	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP s are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This protein degrades amelogenin, the major protein component of dental enamel matrix, and so the protein is thought to play a role in tooth enamel formation. A mutation in this gene, which alters the normal splice pattern and results in premature termination of the encoded protein, has been associated



with amelogenesis imperfecta. This gene is part of a cluster of MMP genes that localizes to chromosome 11q22.3.

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 MMP20 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 %	89
1:1	Range %	85-93
	Average %	100
1:2	Range %	95-105
	Average %	86
1:4	Range %	83-89
	Average %	97
1:8	Range %	92-101

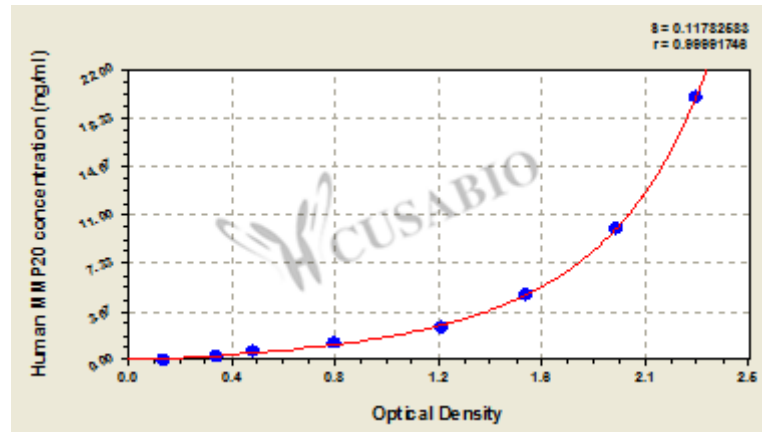
Recovery

The recovery of human MMP20 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	86-90
EDTA plasma (n=4)	101	97-104

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
20	2.303	2.204	2.254	2.101
10	1.915	1.964	1.940	1.787
5	1.636	1.530	1.583	1.430
2.5	1.201	1.301	1.251	1.098
1.25	0.821	0.835	0.828	0.675
0.625	0.512	0.501	0.507	0.354
0.312	0.352	0.368	0.360	0.207
0	0.154	0.152	0.153	?

Msds

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