Dog matrix metalloproteinase 9/Gelatinase B,MMP-9 ELISA Kit

Product Code	CSB-E13887c
Abbreviation	MMP9
Protein Biological Process 1	Developmental Protein
Target Name	matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
Uniprot No.	O18733
Alias	CLG4B, GELB, MANDP2, MMP-9, macrophage gelatinase|matrix metalloproteinase 9|matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)|type V collagenase
Product Type	ELISA Kit
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
Protein Biological Process 3	Collagen degradation
Sample Types	serum, plasma
Detection Range	12.5 ng/mL-800 ng/mL
Sensitivity	3.12 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	MMP9
Tag Info	quantitative
Protein Description	Sandwich
Description	This Dog MMP9 ELISA Kit was designed for the quantitative measurement of Dog MMP9 protein in serum, plasma. It is a Sandwich ELISA kit, its detection range is 12.5 ng/mL-800 ng/mL and the sensitivity is 3.12 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. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling.

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 dog MMP-9 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 %	99
	Range %	92-105
1:2	Average %	88
	Range %	80-96
1:4	Average %	87
	Range %	85-90
1:8	Average %	92
	Range %	88-107

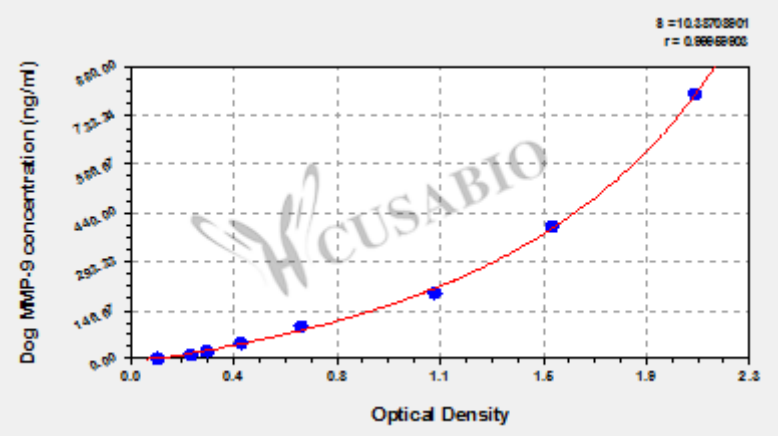
Recovery

The recovery of dog MMP-9 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)	85	81-89
EDTA plasma (n=4)	97	90-105

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
800	2.096	2.076	2.086	1.977
400	1.513	1.605	1.559	1.450
200	1.135	1.118	1.127	1.018
100	0.618	0.655	0.637	0.528
50	0.423	0.409	0.416	0.307
25	0.301	0.278	0.290	0.181
12.5	0.230	0.228	0.229	0.120
0	0.110	0.107	0.109	?

Msds

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