





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

Product Code	CSB-E08006h
Abbreviation	MMP9
Protein Biological Process 1	Tumor marker
Target Name	matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
Uniprot No.	P14780
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	Homo sapiens (Human)
Protein Biological Process 3	Collagen degradation
Sample Types	serum, plasma, tissue homogenates, cell culture supernates, urine
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.284 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
Quality Control	A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm. An incubator can provide stable incubation conditions up to 37°C±5°C. Centrifuge Vortex Squirt bottle, manifold dispenser, or automated microplate washer Absorbent paper for blotting the microtiter plate 50-300ul multi-channel micropipette Pipette tips Single-channel micropipette with different ranges 100ml and 500ml graduated cylinders Deionized or distilled water Timer







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	Test tubes for dilution
Gene Names	MMP9
Tag Info	quantitative
Protein Description	Sandwich
Component	A micro ELISA plateThe 96-well plate has been pre-coated with an antihuman MMP-9 antibody. This dismountable microplate can be divided into 12 x 8 strip plates. Two vials lyophilized standardDilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve. One vial Biotin-labeled MMP-9 antibody (100 x concentrate) (120 μl/bottle)Act as the detection antibody. One vial HRP-avidin (100 x concentrate) (120 μl/bottle)Bind to the detection antibody and react with the TMB substrate to make the solution chromogenic. One vial Biotin-antibody Diluent (15 ml/bottle)Dilute the Biotin-antibody. One vial HRP-avidin Diluent (15 ml/bottle)Dilute the HRP-avidin solution. One vial Sample Diluent (50 ml/bottle)Dilute the sample to an appropriate concentration. One vial Wash Buffer (25 x concentrate) (20 ml/bottle)Wash away unbound or free substances. One vial TMB Substrate (10 ml/bottle)Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue. One vial Stop Solution (10 ml/bottle)Stop the color reaction. The solution color immediately turns from blue to yellow. Four Adhesive Strips (For 96 wells) Cover the microplate when incubation. An instruction manual
Description	This Human MMP9 ELISA Kit was designed for the quantitative measurement of Human MMP9 protein in serum, plasma, tissue homogenates, cell culture supernates, urine. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.284 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,

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.

and murine studies suggest a role in tumor-associated tissue remodeling.

Inter-assay Precision (Precision between assays):CV%<10%

Three samples of known concentration were tested in twenty assays to assess.





47	Intra-Ass	ay Precisio	ne⁵	Inter-Ass	ay Precisio	ne⊃
Sample₽	1₽	2€	3₽	10	2₽	3₽
n⊷	20₽	20€	20₽	20₽	20₽	20₽
Mean(ng/ml)₽	2.616	2.320	2.652₽	2.349₽	2.671₽	2.446₽
SD₽	0.038₽	0.037₽	0.034	0.044₽	0.043₽	0.041₽
CV(%)₽	5.630₽	5.929₽	4.993₽	6.995₽	6.287₽	6.347₽

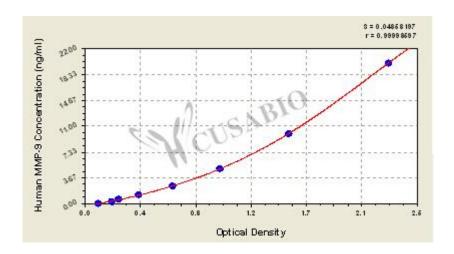
Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human 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)₽	
1:20₽	Average %₽	81₽	
	Range %₽	80-94₽	
1:40₽	Average %₽	83₽	
	Range %₽	81-98₽	
4.00 -	Average %-	94₽	
1:80₽	Range %₽	83₽ 81-98₽ 94₽ 85-108₽ 96₽	
1:160₽	Average %₽	96₽	
	Range %₽	92-102₽	

Typical

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





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ng/ml₽	OD1₽	OD2₽	Average₽	Corrected₽
042	0.103₽	0.109₽	0.106₽	47
0.312₽	0.214₽	0.199₽	0.207₽	0.101₽
0.625₽	0.258₽	0.265₽	0.262∂	0.156₽
1.25₽	0.406	0.409	0.408₽	0.302₽
2.5₽	0.657	0.671	0.664₽	0.558₽
5₽	1.005₽	1.024₽	1.015₽	0.909₽
10₽	1.514₽	1.538₽	1.526₽	1.420₽
20₽	2.289₽	2.242₽	2.266₽	2.160₽

Msds

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