



Human NGAL/MMP-9 complex ELISA kit

Product Code	CSB-EQ01026975HU
Abbreviation	NGAL/MMP-9 complex
Protein Biological Process 1	Tumor marker
Target Name	NGAL/MMP-9 complex
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, saliva, cell culture supernates, tissue homogenates
Detection Range	0.313 ng/mL-20 ng/mL
Sensitivity	0.029 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	Metabolism

Description

The human NGAL/MMP-9 complex ELISA kit is suitable for quantitatively determining human NGAL/MMP-9 complex in multiple samples, including serum, plasma, saliva, cell culture supernates, or tissue homogenates. This assay employs the bi-antibody sandwich technique and enzyme-substrate chromogenic reaction to quantify human NGAL/MMP-9 complex levels in the sample. The amount of synthesized colored product is positively related to the analyte of interest in the sample.

NGAL protects MMP-9 from proteolytic degradation and enhances its stability and enzymatic activities by binding and forming the NGAL/MMP-9 complex. The NGAL/MMP-9 complex is involved in the development and progression of cancer. NGAL/MMP-9 complex expression and activities have been detected in tissue and urine samples from patients with vascular anomalies and cancers. NGAL, MMP-9, and their complex NGAL/MMP-9 have been proposed as soluble biomarkers for numerous malignancies.

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 NGAL/MMP-9 complex 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)
1:10	Average %	91
	Range %	87-98
1:20	Average %	95
	Range %	90-102
1:40	Average %	93
	Range %	87-99
1:80	Average %	94
	Range %	86-105

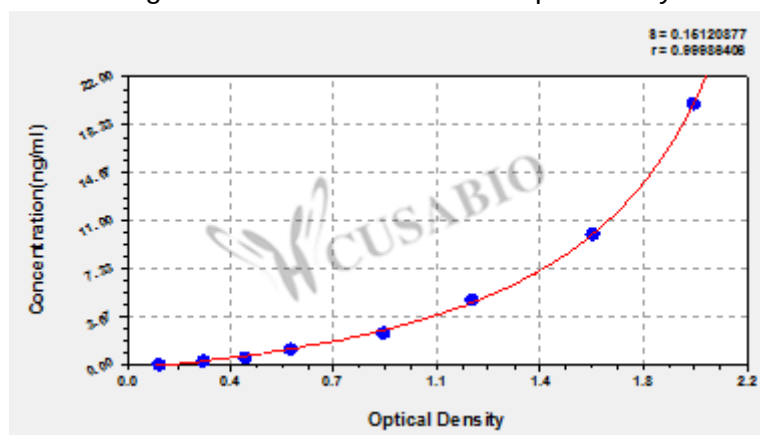
Recovery

The recovery of human NGAL/MMP-9 complex 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)	99	94-103
EDTA plasma (n=4)	94	87-100

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	1.955	2.004	1.980	1.857
10	1.637	1.629	1.633	1.510
5	1.204	1.217	1.211	1.088
2.5	0.894	0.907	0.901	0.778
1.25	0.573	0.582	0.578	0.455
0.625	0.416	0.424	0.420	0.297
0.313	0.281	0.270	0.276	0.153
0	0.124	0.121	0.123	

Msds

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