Human milk fat globule-EGF factor 8 protein(MFGE8) ELISA kit

Product Code	CSB-E12637h
Abbreviation	MFGE8
Protein Biological Process 1	Angiogenesis
Target Name	milk fat globule-EGF factor 8 protein
Uniprot No.	Q08431
Alias	BA46, EDIL1, HsT19888, MFG-E8, OAcGD3S, SED1, SPAG10, hP47, O-acetyl disialoganglioside synthase|lactadherin|medin|sperm associated antigen 10|sperm surface protein hP47
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, cell culture supernates, urine, cerebrospinal fluid (CSF)
Detection Range	781.25 pg/mL-50000 pg/mL
Sensitivity	195.31 pg/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	Cardiovascular
Gene Names	MFGE8
Tag Info	quantitative
Protein Description	Sandwich
Description	The human milk fat globule-EGF factor 8 protein (MFGE8) Elisa kit is suitable for the quantitative measurement of human MFGE8 in serum, cell culture supernates, urine, or cerebrospinal fluid (CSF). This assay employs the sandwich enzyme immunoassay technique and enzyme-substrate chromogenic reaction. The color develops positively to the amount of MFGE8 in samples. The color development is stopped and the intensity of the color is measured. This kit displays many advantages, including high sensitivity, strong specificity, good linearity, high precision and recovery, as well as lot-to-lot consistency.

MFGE8 is a multifunctional glycoprotein that is found in lacteal glands and milk fat globules and contributes to connecting αvβ3 integrin on phagocytic macrophages with phosphatidylserine on apoptotic cells thus enhancing engulfment of apoptotic cells. This process is essential for maintaining the host immune system under physiological conditions. In addition, MFGE8 also directly regulates various cellular functions, such as attenuating inflammation and healing of injured tissues. MFGE8 has been demonstrated to have anti-inflammatory and regenerating roles during intestinal inflammation. Studies have recently identified MFGE8 as a novel and outstanding modulator for vascular aging via targeting endothelial cells (ECs) and vascular smooth muscle cells (VSMCs).

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 MFGE8 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 %	93
	Range %	85-100
1:2	Average %	97
	Range %	92-105
1:4	Average %	91
	Range %	85-96
1:8	Average %	85
	Range %	80-93

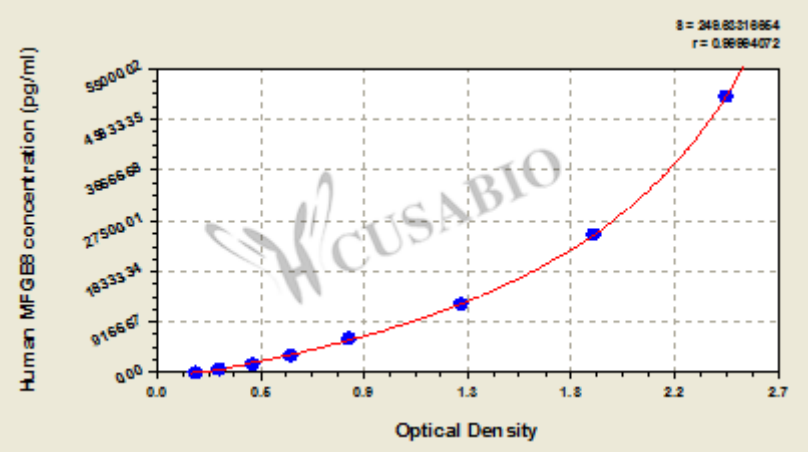
Recovery

The recovery of human MFGE8 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	85-99

Typical

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



pg/ml	OD1	OD2	Average	Corrected
50000	2.437	2.452	2.445	2.264
25000	1.885	1.876	1.881	1.700
12500	1.304	1.324	1.314	1.133
6250	0.821	0.854	0.838	0.657
3125	0.595	0.584	0.590	0.409
1562.5	0.414	0.436	0.425	0.244
781.25	0.289	0.279	0.284	0.103
0	0.174	0.187	0.181	?

Msds

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