



Human SPARC-related modular calcium-binding protein 2(SMOC2) ELISA kit

Product Code	CSB-EL021843HU
Abbreviation	SMOC2
Target Name	SPARC related modular calcium binding 2
Uniprot No.	Q9H3U7
Alias	RP11-270C4__A.1, MST117, MSTP117, MSTP140, SMAP2, bA270C4A.1, bA37D8.1, dJ421D16.1, secreted modular calcium-binding protein 2 smooth muscle associated protein 2 thyroglobulin type-1 repeat containi
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 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	Cardiovascular
Gene Names	SMOC2
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human SMOC2 ELISA Kit was designed for the quantitative measurement of Human SMOC2 protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL.

Target Details

This gene encodes a member of the SPARC family (secreted protein acidic and rich in cysteine/osteonectin/BM-40), which are highly expressed during embryogenesis and wound healing. The gene product is a matricellular protein which promotes matrix assembly and can stimulate endothelial cell proliferation and migration, as well as angiogenic activity. Associated with pulmonary function, this secretory gene product contains a Kazal domain, two thymoglobulin type-1 domains, and two EF-hand calcium-binding domains. The encoded protein may serve as a target for controlling angiogenesis in tumor



growth and myocardial ischemia. Alternative splicing results in multiple transcript variants.

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 SMOC2 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 %	97
	Range %	92-103
1:2	Average %	100
	Range %	96-104
1:4	Average %	93
	Range %	87-97
1:8	Average %	99
	Range %	92-103

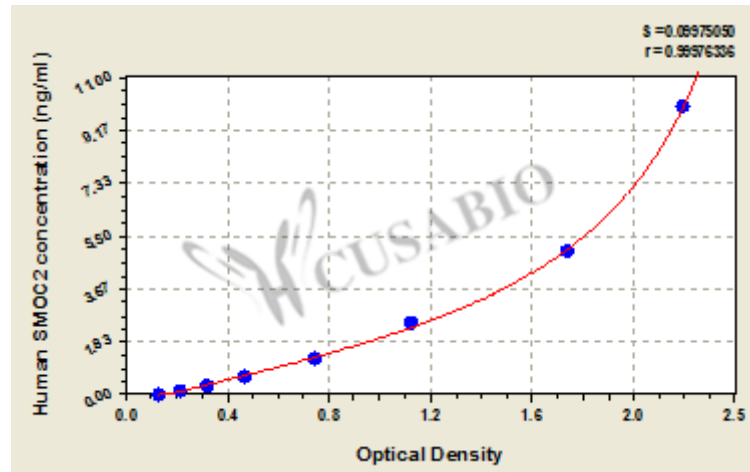
Recovery

The recovery of human SMOC2 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)	91	87-95
EDTA plasma (n=4)	94	88-97

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
10	2.272	2.211	2.242	2.094
5	1.794	1.765	1.780	1.632
2.5	1.190	1.123	1.157	1.009
1.25	0.787	0.754	0.771	0.623
0.625	0.493	0.482	0.488	0.340
0.312	0.336	0.348	0.342	0.194
0.156	0.236	0.221	0.229	0.081
0	0.149	0.147	0.148	

Msds

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