



Human Chondroitin sulfate proteoglycan 4(CSPG4) ELISA kit

Product Code	CSB-EL006076HU
Abbreviation	CSPG4
Protein Biological Process 1	Angiogenesis
Target Name	chondroitin sulfate proteoglycan 4
Uniprot No.	Q6UVK1
Alias	HMW-MAA, MCSP, MCSPG, MEL-CSPG, MSK16, NG2, chondroitin sulfate proteoglycan 4 (melanoma-associated) melanoma-associated chondroitin sulfate proteoglycan
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	25 pg/mL-1600 pg/mL
Sensitivity	6.25 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	CSPG4
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human CSPG4 ELISA Kit was designed for the quantitative measurement of Human CSPG4 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 25 pg/mL-1600 pg/mL and the sensitivity is 6.25 pg/mL.
Target Details	A human melanoma-associated chondroitin sulfate proteoglycan plays a role in stabilizing cell-substratum interactions during early events of melanoma cell spreading on endothelial basement membranes. CSPG4 represents an integral



membrane chondroitin sulfate proteoglycan expressed by human malignant melanoma cells.

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 CSPG4 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 %	92
	Range %	87-95
1:2	Average %	89
	Range %	83-94
1:4	Average %	92
	Range %	89-95
1:8	Average %	97
	Range %	92-103

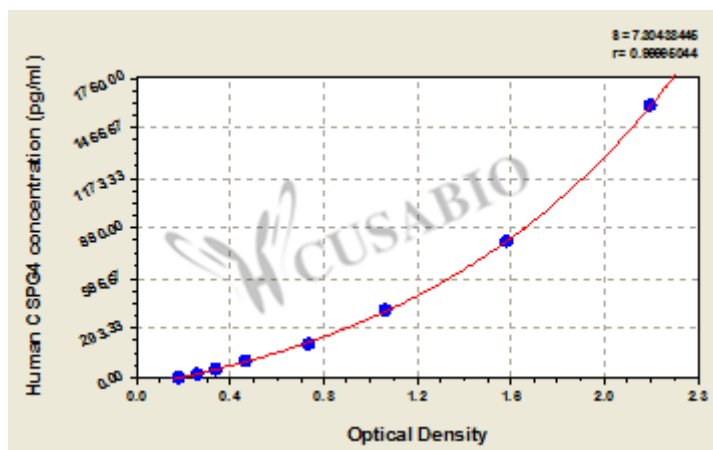
Recovery

The recovery of human CSPG4 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)	96	91-102
EDTA plasma (n=4)	88	82-94

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
1600	2.170	2.134	2.152	1.958
800	1.501	1.602	1.552	1.358
400	1.011	1.089	1.050	0.856
200	0.737	0.725	0.731	0.537
100	0.474	0.463	0.469	0.275
50	0.341	0.355	0.348	0.154
25	0.263	0.273	0.268	0.074
0	0.193	0.194	0.194	

Msds

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