



# Human heparan sulfate proteoglycan 2 (HSPG2) ELISA kit

|                                     |                                                                                                                                                                                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>                 | CSB-EL010868HU                                                                                                                                                                                                                      |
| <b>Abbreviation</b>                 | HSPG2                                                                                                                                                                                                                               |
| <b>Protein Biological Process 1</b> | Angiogenesis                                                                                                                                                                                                                        |
| <b>Target Name</b>                  | heparan sulfate proteoglycan 2                                                                                                                                                                                                      |
| <b>Uniprot No.</b>                  | P98160                                                                                                                                                                                                                              |
| <b>Alias</b>                        | RP11-132G19.2, PLC, PRCAN, SJA, SJS, SJS1, Schwartz-Jampel syndrome 1 (chondrodystrophic myotonia) endorepellin (domain V region) heparan sulfate proteoglycan of basement membrane perlecan proteogly                              |
| <b>Product Type</b>                 | ELISA Kit                                                                                                                                                                                                                           |
| <b>Immunogen Species</b>            | Homo sapiens (Human)                                                                                                                                                                                                                |
| <b>Protein Biological Process 3</b> | Angiogenesis                                                                                                                                                                                                                        |
| <b>Sample Types</b>                 | serum, plasma                                                                                                                                                                                                                       |
| <b>Detection Range</b>              | 62.5 pg/mL-4000 pg/mL                                                                                                                                                                                                               |
| <b>Sensitivity</b>                  | 15.6 pg/mL                                                                                                                                                                                                                          |
| <b>Assay Time</b>                   | 1-5h                                                                                                                                                                                                                                |
| <b>Sample Volume</b>                | 50-100ul                                                                                                                                                                                                                            |
| <b>Detection Wavelength</b>         | 450 nm                                                                                                                                                                                                                              |
| <b>Lead Time</b>                    | 3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.                                                                                                                            |
| <b>Research Area</b>                | Cardiovascular                                                                                                                                                                                                                      |
| <b>Gene Names</b>                   | HSPG2                                                                                                                                                                                                                               |
| <b>Tag Info</b>                     | quantitative                                                                                                                                                                                                                        |
| <b>Protein Description</b>          | Sandwich                                                                                                                                                                                                                            |
| <b>Description</b>                  | This Human HSPG2 ELISA Kit was designed for the quantitative measurement of Human HSPG2 protein in serum, plasma. It is a Sandwich ELISA kit, its detection range is 62.5 pg/mL-4000 pg/mL and the sensitivity is 15.6 pg/mL.       |
| <b>Product Precision</b>            | <b>Intra-assay Precision (Precision within an assay): CV%&lt;8%</b><br>Three samples of known concentration were tested twenty times on one plate to assess.<br><b>Inter-assay Precision (Precision between assays): CV%&lt;10%</b> |



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 HSPG2 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) |
|     | Average % | 102        |
| 1:1 | Range %   | 89-107     |
|     | Average % | 98         |
| 1:2 | Range %   | 91-102     |
|     | Average % | 94         |
| 1:4 | Range %   | 84-98      |
|     | Average % | 106        |
| 1:8 | Range %   | 96-110     |

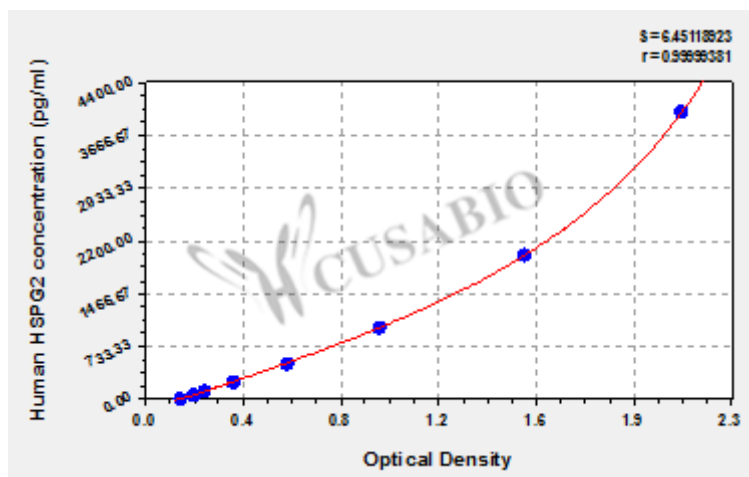
### Recovery

The recovery of human HSPG2 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)       | 103                | 93-106 |
| EDTA plasma (n=4) | 103                | 94-107 |

### 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 |
|-------|-------|-------|---------|-----------|
| 4000  | 2.171 | 2.089 | 2.130   | 1.978     |
| 2000  | 1.530 | 1.483 | 1.507   | 1.355     |
| 1000  | 0.925 | 0.946 | 0.936   | 0.784     |
| 500   | 0.578 | 0.565 | 0.572   | 0.420     |
| 250   | 0.352 | 0.367 | 0.360   | 0.208     |
| 125   | 0.245 | 0.253 | 0.249   | 0.097     |
| 62.5  | 0.203 | 0.208 | 0.206   | 0.054     |
| 0     | 0.154 | 0.150 | 0.152   | ?         |

## Msds

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    "filename": "MSDS"
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