



# Human LIM and SH3 domain protein 1(LASP1) ELISA kit

|                                     |                                                                                                                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>                 | CSB-EL012760HU                                                                                                                                                                                                                                                 |
| <b>Protein Biological Process 2</b> | Anion transport                                                                                                                                                                                                                                                |
| <b>Abbreviation</b>                 | LASP1                                                                                                                                                                                                                                                          |
| <b>Protein Biological Process 1</b> | Transport                                                                                                                                                                                                                                                      |
| <b>Target Name</b>                  | LIM and SH3 protein 1                                                                                                                                                                                                                                          |
| <b>Uniprot No.</b>                  | Q14847                                                                                                                                                                                                                                                         |
| <b>Alias</b>                        | Lasp-1, MLN50                                                                                                                                                                                                                                                  |
| <b>Product Type</b>                 | ELISA Kit                                                                                                                                                                                                                                                      |
| <b>Immunogen Species</b>            | Homo sapiens (Human)                                                                                                                                                                                                                                           |
| <b>Protein Biological Process 3</b> | Ion transport                                                                                                                                                                                                                                                  |
| <b>Sample Types</b>                 | serum, plasma, tissue homogenates, cell lysates                                                                                                                                                                                                                |
| <b>Detection Range</b>              | 25 pg/mL-1600 pg/mL                                                                                                                                                                                                                                            |
| <b>Sensitivity</b>                  | 6.25 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>                | Signal Transduction                                                                                                                                                                                                                                            |
| <b>Gene Names</b>                   | LASP1                                                                                                                                                                                                                                                          |
| <b>Tag Info</b>                     | quantitative                                                                                                                                                                                                                                                   |
| <b>Protein Description</b>          | Sandwich                                                                                                                                                                                                                                                       |
| <b>Description</b>                  | This Human LASP1 ELISA Kit was designed for the quantitative measurement of Human LASP1 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 . |
| <b>Target Details</b>               | This gene encodes a member of a LIM protein subfamily characterized by a LIM motif and a domain of Src homology region 3. The encoded protein functions as an actin-binding protein and possibly in cytoskeletal organization.                                 |



## 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 LASP1 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 % | 97         |
| 1:1 | Range %   | 92-101     |
|     | Average % | 88         |
| 1:2 | Range %   | 83-92      |
|     | Average % | 97         |
| 1:4 | Range %   | 93-101     |
|     | Average % | 85         |
| 1:8 | Range %   | 80-92      |

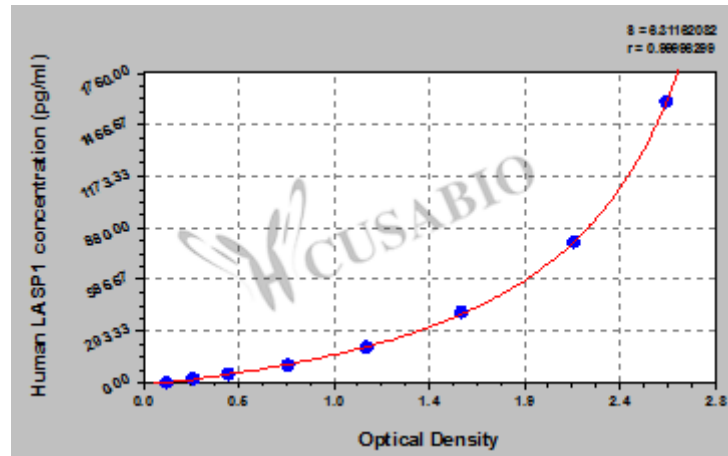
## Recovery

The recovery of human LASP1 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                 | 95-103 |
| EDTA plasma (n=4) | 91                 | 87-95  |

## 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  | 2.603 | 2.572 | 2.588   | 2.457     |
| 800   | 2.157 | 2.106 | 2.132   | 2.001     |
| 400   | 1.640 | 1.524 | 1.582   | 1.451     |
| 200   | 1.153 | 1.069 | 1.111   | 0.980     |
| 100   | 0.714 | 0.742 | 0.728   | 0.597     |
| 50    | 0.419 | 0.443 | 0.431   | 0.300     |
| 25    | 0.249 | 0.271 | 0.260   | 0.129     |
| 0     | 0.127 | 0.135 | 0.131   | ?         |

## Msd

{ "0": { "fileurl": "https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL012760HU.pdf", "filename": "MSDS" } }