



# Human Protein Gene Product 9.5 (PGP 9.5) ELISA Kit

|                                     |                                                                                                                                                                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>                 | CSB-E13238h                                                                                                                                                                                                                                                                  |
| <b>Abbreviation</b>                 | UCHL1                                                                                                                                                                                                                                                                        |
| <b>Protein Biological Process 1</b> | Ubiquitin                                                                                                                                                                                                                                                                    |
| <b>Target Name</b>                  | ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)                                                                                                                                                                                                            |
| <b>Uniprot No.</b>                  | P09936                                                                                                                                                                                                                                                                       |
| <b>Alias</b>                        | PARK5, PGP9.5, PGP95, Uch-L1, neuron cytoplasmic protein 9.5 ubiquitin C-terminal hydrolase ubiquitin carboxyl-terminal esterase L1                                                                                                                                          |
| <b>Product Type</b>                 | ELISA Kit                                                                                                                                                                                                                                                                    |
| <b>Immunogen Species</b>            | Homo sapiens (Human)                                                                                                                                                                                                                                                         |
| <b>Protein Biological Process 3</b> | Ubl conjugation pathway                                                                                                                                                                                                                                                      |
| <b>Sample Types</b>                 | serum, plasma, tissue homogenates, cerebrospinal fluid (CSF)                                                                                                                                                                                                                 |
| <b>Detection Range</b>              | 6.25 ng/mL-400 ng/mL                                                                                                                                                                                                                                                         |
| <b>Sensitivity</b>                  | 1.56 ng/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>                | Cell Biology                                                                                                                                                                                                                                                                 |
| <b>Gene Names</b>                   | UCHL1                                                                                                                                                                                                                                                                        |
| <b>Tag Info</b>                     | quantitative                                                                                                                                                                                                                                                                 |
| <b>Protein Description</b>          | Sandwich                                                                                                                                                                                                                                                                     |
| <b>Description</b>                  | This Human UCHL1 ELISA Kit was designed for the quantitative measurement of Human UCHL1 protein in serum, plasma, tissue homogenates, cerebrospinal fluid (CSF). It is a Sandwich ELISA kit, its detection range is 6.25 ng/mL-400 ng/mL and the sensitivity is 1.56 ng/mL . |
| <b>Product Precision</b>            | <p>Intra-assay Precision (Precision within an assay): CV%&lt;8%</p> <p>Three samples of known concentration were tested twenty times on one plate to assess.</p> <p>Inter-assay Precision (Precision between assays): CV%&lt;10%</p>                                         |



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 PGP 9.5 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 % | 93         |
| 1:1 | Range %   | 90-96      |
|     | Average % | 98         |
| 1:2 | Range %   | 92-105     |
|     | Average % | 89         |
| 1:4 | Range %   | 85-96      |
|     | Average % | 84         |
| 1:8 | Range %   | 80-92      |

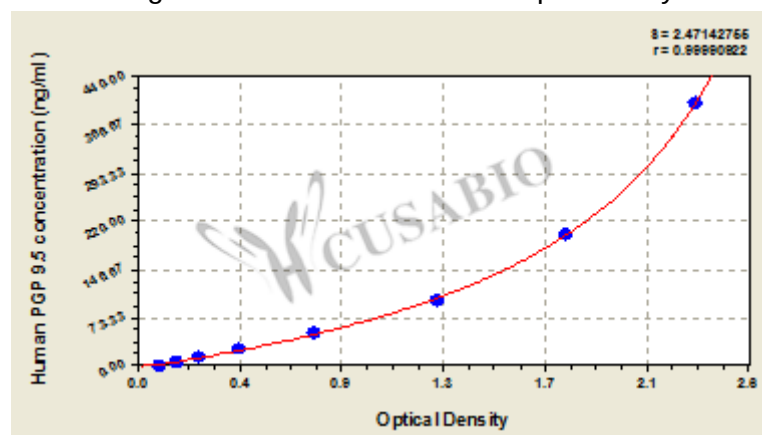
## Recovery

The recovery of human PGP 9.5 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                 | 91-101 |
| EDTA plasma (n=4) | 93                 | 88-99  |

## 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 |
|-------|-------|-------|---------|-----------|
| 400   | 2.269 | 2.389 | 2.329   | 2.235     |
| 200   | 1.778 | 1.798 | 1.788   | 1.694     |
| 100   | 1.241 | 1.269 | 1.255   | 1.161     |
| 50    | 0.726 | 0.758 | 0.742   | 0.648     |
| 25    | 0.414 | 0.436 | 0.425   | 0.331     |
| 12.5  | 0.271 | 0.255 | 0.263   | 0.169     |
| 6.25  | 0.165 | 0.169 | 0.167   | 0.073     |
| 0     | 0.092 | 0.095 | 0.094   | ?         |

## Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E13238h.pdf","filename":"MSDS"}}