



# Human A disintegrin and metalloproteinase with thrombospondin motifs 2(ADAMTS2) ELISA kit

|                                     |                                                                                                                                                                                                                                                      |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>                 | CSB-EL001308HU                                                                                                                                                                                                                                       |
| <b>Abbreviation</b>                 | ADAMTS2                                                                                                                                                                                                                                              |
| <b>Protein Biological Process 1</b> | Developmental Protein                                                                                                                                                                                                                                |
| <b>Target Name</b>                  | ADAM metalloproteinase with thrombospondin type 1 motif, 2                                                                                                                                                                                           |
| <b>Uniprot No.</b>                  | O95450                                                                                                                                                                                                                                               |
| <b>Alias</b>                        | ADAM-TS2, ADAMTS-3, NPI, PCINP, PCPNI, hPCPNI, a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 2 procollagen I N-proteinase procollagen N-endorpeptidase                                                |
| <b>Product Type</b>                 | ELISA Kit                                                                                                                                                                                                                                            |
| <b>Immunogen Species</b>            | Homo sapiens (Human)                                                                                                                                                                                                                                 |
| <b>Protein Biological Process 3</b> | Collagen degradation                                                                                                                                                                                                                                 |
| <b>Sample Types</b>                 | serum, plasma, tissue homogenates                                                                                                                                                                                                                    |
| <b>Detection Range</b>              | 3.12 ng/mL-200 ng/mL                                                                                                                                                                                                                                 |
| <b>Sensitivity</b>                  | 0.78 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>                   | ADAMTS2                                                                                                                                                                                                                                              |
| <b>Tag Info</b>                     | quantitative                                                                                                                                                                                                                                         |
| <b>Protein Description</b>          | Sandwich                                                                                                                                                                                                                                             |
| <b>Description</b>                  | This Human ADAMTS2 ELISA Kit was designed for the quantitative measurement of Human ADAMTS2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 3.12 ng/mL-200 ng/mL and the sensitivity is 0.78 ng/mL. |
| <b>Target Details</b>               | This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of the family share several distinct protein modules, including a propeptide region, a                             |



metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The enzyme encoded by this gene excises the N-propeptide of type I, type II and type V procollagens. Mutations in this gene cause Ehlers-Danlos syndrome type VIIC, a recessively inherited connective-tissue disorder. Alternative splicing results in two transcript variants. The short transcript encodes a protein which has no significant procollagen N-peptidase activity.

**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 ADAMTS2 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 % | 90         |
| 1:1 | Range %   | 85-95      |
|     | Average % | 92         |
| 1:2 | Range %   | 88-96      |
|     | Average % | 87         |
| 1:4 | Range %   | 82-91      |
|     | Average % | 95         |
| 1:8 | Range %   | 90-100     |

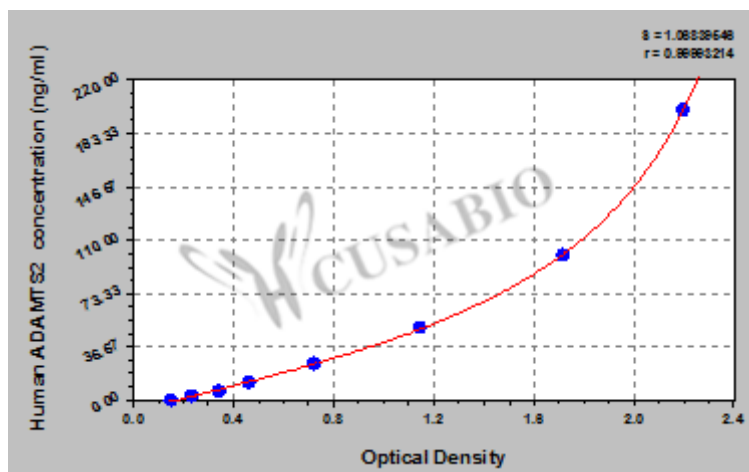
**Recovery**

The recovery of human ADAMTS2 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)       | 102                | 98-109 |
| EDTA plasma (n=4) | 97                 | 92-101 |

**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 |
|-------|-------|-------|---------|-----------|
| 200   | 2.129 | 2.238 | 2.184   | 2.023     |
| 100   | 1.737 | 1.682 | 1.710   | 1.549     |
| 50    | 1.112 | 1.174 | 1.143   | 0.982     |
| 25    | 0.719 | 0.741 | 0.730   | 0.569     |
| 12.5  | 0.480 | 0.459 | 0.470   | 0.309     |
| 6.25  | 0.360 | 0.350 | 0.355   | 0.194     |
| 3.12  | 0.239 | 0.247 | 0.243   | 0.082     |
| 0     | 0.159 | 0.163 | 0.161   | ?         |

## Msds

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