



# Human synaptophysin (SYP) ELISA kit

|                      |                                                                                                                                                                                                                                                                                                                                                                                                        |            |  |        |            |     |           |    |         |       |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|--------|------------|-----|-----------|----|---------|-------|
| Product Code         | CSB-E17406h                                                                                                                                                                                                                                                                                                                                                                                            |            |  |        |            |     |           |    |         |       |
| Abbreviation         | SYP                                                                                                                                                                                                                                                                                                                                                                                                    |            |  |        |            |     |           |    |         |       |
| Target Name          | synaptophysin                                                                                                                                                                                                                                                                                                                                                                                          |            |  |        |            |     |           |    |         |       |
| Uniprot No.          | P08247                                                                                                                                                                                                                                                                                                                                                                                                 |            |  |        |            |     |           |    |         |       |
| Alias                | MRXSYP, major synaptic vesicle protein P38                                                                                                                                                                                                                                                                                                                                                             |            |  |        |            |     |           |    |         |       |
| Product Type         | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                              |            |  |        |            |     |           |    |         |       |
| Immunogen Species    | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                   |            |  |        |            |     |           |    |         |       |
| Sample Types         | serum, plasma, tissue homogenates, cell lysates                                                                                                                                                                                                                                                                                                                                                        |            |  |        |            |     |           |    |         |       |
| Detection Range      | 62.5 pg/mL-4000 pg/mL                                                                                                                                                                                                                                                                                                                                                                                  |            |  |        |            |     |           |    |         |       |
| Sensitivity          | 15.6 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        | Neuroscience                                                                                                                                                                                                                                                                                                                                                                                           |            |  |        |            |     |           |    |         |       |
| Gene Names           | SYP                                                                                                                                                                                                                                                                                                                                                                                                    |            |  |        |            |     |           |    |         |       |
| Tag Info             | quantitative                                                                                                                                                                                                                                                                                                                                                                                           |            |  |        |            |     |           |    |         |       |
| Protein Description  | Sandwich                                                                                                                                                                                                                                                                                                                                                                                               |            |  |        |            |     |           |    |         |       |
| Description          | This Human SYP ELISA Kit was designed for the quantitative measurement of Human SYP protein in serum, plasma, tissue homogenates, cell lysates. 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.                                                                                                                                            |            |  |        |            |     |           |    |         |       |
| Product Precision    | Intra-assay Precision (Precision within an assay): CV%<8%<br>Three samples of known concentration were tested twenty times on one plate to assess.<br>Inter-assay Precision (Precision between assays): CV%<10%<br>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 SYP in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay. <table><tr><td></td><td>Sample</td><td>Serum(n=4)</td></tr><tr><td rowspan="2">1:1</td><td>Average %</td><td>93</td></tr><tr><td>Range %</td><td>88-97</td></tr></table> |            |  | Sample | Serum(n=4) | 1:1 | Average % | 93 | Range % | 88-97 |
|                      | Sample                                                                                                                                                                                                                                                                                                                                                                                                 | Serum(n=4) |  |        |            |     |           |    |         |       |
| 1:1                  | Average %                                                                                                                                                                                                                                                                                                                                                                                              | 93         |  |        |            |     |           |    |         |       |
|                      | Range %                                                                                                                                                                                                                                                                                                                                                                                                | 88-97      |  |        |            |     |           |    |         |       |



|     |           |        |
|-----|-----------|--------|
| 1:2 | Average % | 94     |
|     | Range %   | 87-98  |
| 1:4 | Average % | 93     |
|     | Range %   | 88-97  |
| 1:8 | Average % | 97     |
|     | Range %   | 92-103 |

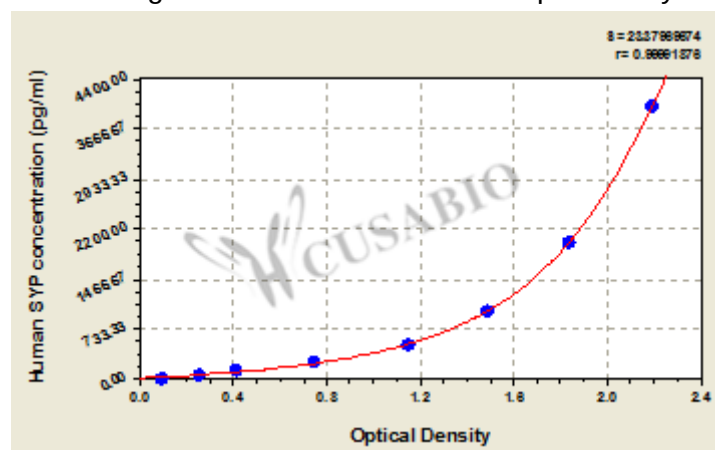
## Recovery

The recovery of human SYP 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)       | 95                 | 91-100 |
| EDTA plasma (n=4) | 92                 | 88-96  |

## 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  | 2.157 | 2.258 | 2.208   | 2.103     |
| 2000  | 1.776 | 1.924 | 1.850   | 1.745     |
| 1000  | 1.452 | 1.556 | 1.504   | 1.399     |
| 500   | 1.152 | 1.173 | 1.163   | 1.058     |
| 250   | 0.751 | 0.765 | 0.758   | 0.653     |
| 125   | 0.416 | 0.427 | 0.422   | 0.317     |
| 62.5  | 0.262 | 0.268 | 0.265   | 0.160     |
| 0     | 0.104 | 0.105 | 0.105   |           |

## Msds

{\"0\": {\"fileurl\": \"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E17406h.pdf\", \"filename\": \"MSDS\"}}