



# Sheep Interleukin 12,IL-12 ELISA Kit

| <b>Product Code</b>         | CSB-E14017Sh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|--------|------------|-----|-----------|----|---------|-------|-----|-----------|-----|---------|--------|-----|-----------|----|---------|-------|
| <b>Abbreviation</b>         | IL12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| <b>Target Name</b>          | Interleukin 12,IL-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| <b>Alias</b>                | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| <b>Product Type</b>         | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| <b>Immunogen Species</b>    | Ovis aries (Sheep)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| <b>Sample Types</b>         | serum, plasma, tissue homogenates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| <b>Detection Range</b>      | 31.25 pg/mL-2000 pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| <b>Sensitivity</b>          | 7.81 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>        | Immunology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| <b>Tag Info</b>             | quantitative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| <b>Protein Description</b>  | Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| <b>Description</b>          | This Sheep IL12 ELISA Kit was designed for the quantitative measurement of Sheep IL12 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/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> <p>Three samples of known concentration were tested in twenty assays to assess.</p>                                                                                                                                                                                                                                                                                                                                                     |            |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| <b>Linearity</b>            | <p>To assess the linearity of the assay, samples were spiked with high concentrations of sheep IL-12 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.</p> <table> <thead> <tr> <th></th><th>Sample</th><th>Serum(n=4)</th></tr> </thead> <tbody> <tr> <td rowspan="2">1:1</td><td>Average %</td><td>90</td></tr> <tr> <td>Range %</td><td>87-94</td></tr> <tr> <td rowspan="2">1:2</td><td>Average %</td><td>103</td></tr> <tr> <td>Range %</td><td>99-107</td></tr> <tr> <td rowspan="2">1:4</td><td>Average %</td><td>93</td></tr> <tr> <td>Range %</td><td>87-99</td></tr> </tbody> </table> |            |  | Sample | Serum(n=4) | 1:1 | Average % | 90 | Range % | 87-94 | 1:2 | Average % | 103 | Range % | 99-107 | 1:4 | Average % | 93 | Range % | 87-99 |
|                             | Sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Serum(n=4) |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| 1:1                         | Average %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 90         |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
|                             | Range %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 87-94      |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| 1:2                         | Average %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 103        |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
|                             | Range %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 99-107     |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
| 1:4                         | Average %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 93         |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |
|                             | Range %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 87-99      |  |        |            |     |           |    |         |       |     |           |     |         |        |     |           |    |         |       |



|     |           |       |
|-----|-----------|-------|
| 1:8 | Average % | 91    |
|     | Range %   | 88-96 |

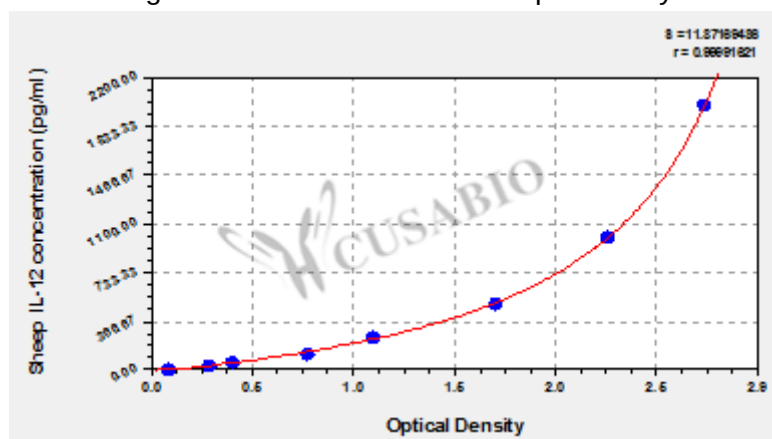
## Recovery

The recovery of sheep IL-12 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                 | 92-103 |
| EDTA plasma (n=4) | 90                 | 86-94  |

## 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 |
|-------|-------|-------|---------|-----------|
| 2000  | 2.599 | 2.780 | 2.690   | 2.596     |
| 1000  | 2.177 | 2.261 | 2.219   | 2.125     |
| 500   | 1.621 | 1.730 | 1.676   | 1.582     |
| 250   | 1.113 | 1.056 | 1.085   | 0.991     |
| 125   | 0.756 | 0.782 | 0.769   | 0.675     |
| 62.5  | 0.399 | 0.411 | 0.405   | 0.311     |
| 31.25 | 0.280 | 0.297 | 0.289   | 0.195     |
| 0     | 0.097 | 0.090 | 0.094   |           |

## Msds

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{
  "0": {
    "fileurl": "https://www.cusabio.com/uploadfile/msds/MSDS CSB-E14017Sh.pdf",
    "filename": "MSDS"
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