



# Sheep Serum Amyloid A,SAA ELISA Kit

|                                     |                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>                 | CSB-E14973Sh                                                                                                                                                                                                                                                                                                             |
| <b>Abbreviation</b>                 | SAA1                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Biological Process 1</b> | Immunity                                                                                                                                                                                                                                                                                                                 |
| <b>Target Name</b>                  | serum amyloid A1                                                                                                                                                                                                                                                                                                         |
| <b>Uniprot No.</b>                  | P42819                                                                                                                                                                                                                                                                                                                   |
| <b>Alias</b>                        | MGC111216, PIG4, SAA, TP53I4, tumor protein p53 inducible protein 4                                                                                                                                                                                                                                                      |
| <b>Product Type</b>                 | ELISA Kit                                                                                                                                                                                                                                                                                                                |
| <b>Immunogen Species</b>            | Ovis aries (Sheep)                                                                                                                                                                                                                                                                                                       |
| <b>Protein Biological Process 3</b> | Acute phase                                                                                                                                                                                                                                                                                                              |
| <b>Sample Types</b>                 | serum, plasma, tissue homogenates                                                                                                                                                                                                                                                                                        |
| <b>Detection Range</b>              | 1.875 ng/mL-120 ng/mL                                                                                                                                                                                                                                                                                                    |
| <b>Sensitivity</b>                  | 0.47 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>                | Cardiovascular                                                                                                                                                                                                                                                                                                           |
| <b>Gene Names</b>                   | SAA1                                                                                                                                                                                                                                                                                                                     |
| <b>Tag Info</b>                     | quantitative                                                                                                                                                                                                                                                                                                             |
| <b>Protein Description</b>          | Competitive                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>                  | This Sheep SAA1 ELISA Kit was designed for the quantitative measurement of Sheep SAA1 protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 1.875 ng/mL-120 ng/mL and the sensitivity is 0.47 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> <p>Three samples of known concentration were tested in twenty assays to assess.</p> |

## Linearity



To assess the linearity of the assay, samples were spiked with high concentrations of sheep SAA 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) |
|-------|-----------|------------|
| 1:100 | Average % | 94         |
|       | Range %   | 90-98      |
| 1:200 | Average % | 98         |
|       | Range %   | 93-102     |
| 1:400 | Average % | 104        |
|       | Range %   | 98-108     |
| 1:800 | Average % | 89         |
|       | Range %   | 84-93      |

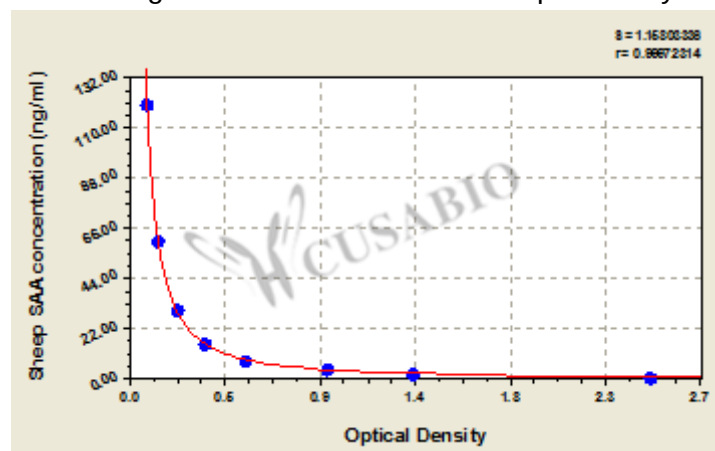
### Recovery

The recovery of sheep SAA 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)       | 86                 | 82-91 |
| EDTA plasma (n=4) | 94                 | 90-98 |

### 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 |
|-------|-------|-------|---------|
| 120   | 0.086 | 0.088 | 0.087   |
| 60    | 0.136 | 0.142 | 0.139   |
| 30    | 0.247 | 0.231 | 0.239   |
| 15    | 0.362 | 0.372 | 0.367   |
| 7.5   | 0.553 | 0.566 | 0.560   |
| 3.75  | 0.924 | 0.984 | 0.954   |
| 1.875 | 1.324 | 1.401 | 1.363   |
| 0     | 2.448 | 2.543 | 2.496   |