



Human secondary lymphoid-tissue chemokine,SLC ELISA Kit

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|-------------------------------------|--|
| Product Code | CSB-E04521h |
| Protein Biological Process 2 | chemokine |
| Abbreviation | CCL21 |
| Protein Biological Process 1 | Immunity |
| Target Name | chemokine (C-C motif) ligand 21 |
| Uniprot No. | O00585 |
| Alias | 6Ckine, CKb9, ECL, MGC34555, SCYA21, SLC, TCA4, Efficient Chemoattractant for Lymphocytes beta chemokine exodus-2 exodus-2 secondary lymphoid tissue chemokine small inducible cytokine A21 small indu |
| Product Type | ELISA Kit |
| Immunogen Species | Homo sapiens (Human) |
| Protein Biological Process 3 | Chemotaxis |
| Sample Types | serum, plasma |
| Detection Range | 78 pg/mL-5000 pg/mL |
| Sensitivity | 19.5 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 | Immunology |
| Gene Names | CCL21 |
| Tag Info | quantitative |
| Protein Description | Sandwich |

Description

The product CSB-E04521h is a sandwich ELISA kit developed to measure concentrations of human secondary lymphoid-tissue chemokine (SLC) in serum or plasma. This assay uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of SLC in



samples. The color intensity is measured at 450 nm via a microplate reader.

SLC, also called CCL21, is a chemokine that mediates the recruitment of multiple leukocyte subsets through CCR7-mediated signaling during the steady-state and inflammation. It plays a vital role in the homing and localization of immune cells to lymphoid tissues. CCL21 is also involved in priming adaptive immunity via governing egress of dendritic cells (DCs) from barrier tissues and T cell entry and positioning in secondary lymphoid organs. CCL21/CCR7 signaling promotes growth and metastasis of many tumor types including melanomas, breast, thyroid, colon, head, and neck cancers.

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 SLC/CCL21 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) |
|-----|-----------|------------|
| 1:1 | Average % | 92 |
| | Range % | 89-98 |
| 1:2 | Average % | 103 |
| | Range % | 95-107 |
| 1:4 | Average % | 91 |
| | Range % | 86-98 |
| 1:8 | Average % | 93 |
| | Range % | 87-98 |

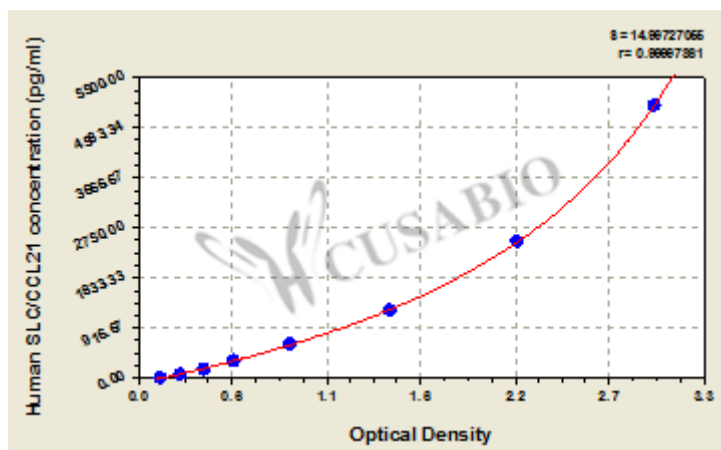
Recovery

The recovery of human SLC/CCL21 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) | 97 | 91-102 |
| EDTA plasma (n=4) | 86 | 82-92 |

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 |
|-------|-------|-------|---------|-----------|
| 5000 | 2.983 | 2.991 | 2.987 | 2.844 |
| 2500 | 2.217 | 2.183 | 2.200 | 2.057 |
| 1250 | 1.437 | 1.489 | 1.463 | 1.320 |
| 625 | 0.890 | 0.883 | 0.887 | 0.744 |
| 312.5 | 0.558 | 0.576 | 0.567 | 0.424 |
| 156 | 0.399 | 0.382 | 0.391 | 0.248 |
| 78 | 0.257 | 0.252 | 0.255 | 0.112 |
| 0 | 0.142 | 0.143 | 0.143 | ? |

Msds

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