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Datasheet for ABIN2859227 SDC4 ELISA Kit

Image



### Overview

| Quantity:                | 96 tests        |
|--------------------------|-----------------|
| Target:                  | SDC4            |
| Binding Specificity:     | AA 19-145       |
| Reactivity:              | Human           |
| Method Type:             | Sandwich ELISA  |
| Detection Range:         | 62.5-4000 pg/mL |
| Minimum Detection Limit: | 62.5 pg/mL      |
| Application:             | ELISA           |

## Product Details

| Purpose:                    | Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Syndecan-4 |
|-----------------------------|--|
| Brand:                      | PicoKine™  |
| Sample Type:                | Cell Culture Supernatant, Serum  |
| Analytical Method:          | Quantitative   |
| Detection Method:           | Colorimetric   |
| Immunogen:                  | Expression system for standard: NSO<br>Immunogen sequence: E19-E145                |
| Specificity:                | Expression system for standard: NSO<br>Immunogen sequence: E19-E145                |
| Cross-Reactivity (Details): | There is no detectable cross-reactivity with other relevant proteins.              |

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## Product Details

| Sensitivity:           | <10pg/mL   |
|------------------------|--|
| Material not included: | Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette    |
|                        | tips. Multichannel pipettes are recommended in the condition of large amount of samples in the |
|                        | detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation   |
|                        | of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl   |

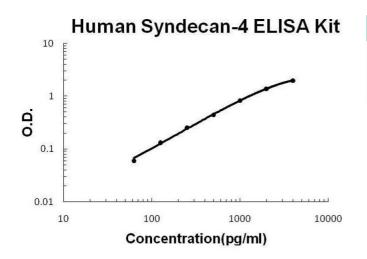
# Target Details

| Target:             | SDC4   |
|---------------------|--|
| Alternative Name:   | SDC4 (SDC4 Products)   |
| Background:         | Protein Function: Cell surface proteoglycan that bears heparan sulfate.                          |
|                     | Background: Syndecan-4 (SDC4) is a protein that in humans is encoded by the SDC4 gene. The       |
|                     | protein is found as a homodimer and is a member of the syndecan proteoglycan family. It is       |
|                     | mapped to 20q13.12. Syndecan-4 is one of the four vertebrate syndecans and has a molecular       |
|                     | weight of ~20 kDa. It is a transmembrane (type I) heparan sulfate proteoglycan that functions    |
|                     | as a receptor in intracellular signaling. Syndecan-4 also regulates the actin cytoskeleton, cell |
|                     | adhesion, and cell migration. In addition, Syndecan-4 can activate protein kinase C (PKC). The   |
|                     | variable domain of syndecan-4 could be a site of self-association. What's more, Syndecan-4       |
|                     | also binds to phosphatidylinositol (4,5)-bisphosphate (PIP2) through the variable domain and     |
|                     | increases PKC activity ten-fold.   |
|                     | Synonyms: Syndecan-4,SYND4,Amphiglycan,Ryudocan core protein,SDC4,                               |
|                     | Full Gene Name: Syndecan-4   |
|                     | Cellular Localisation: Isoform 1: Membrane, Single-pass type I membrane protein. Secreted.       |
|                     | Shedding of the ectodomain produces a soluble form   |
| Gene ID:            | 6385   |
| UniProt:            | P31431   |
| Pathways:           | Glycosaminoglycan Metabolic Process  |
| Application Details |  |
| Application Notes:  | Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well     |
|                     | assay was recommended for both standard and sample testing.                                      |
| Comment:            | Tissue Specificity: Expressed in epithelial and fibroblastic cells                               |
| Plate:              | Pre-coated   |
|                     |  |

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## Application Details

| Protocol:        | human Syndecan-4 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent  |
|------------------|--|
|                  | assay technology. A monoclonal antibody from mouse specific for Syndecan-4 has been  |
|                  | precoated onto 96-well plates. Standards(NSO, E19-E145) and test samples are added to the  |
|                  | wells, a biotinylated detection polyclonal antibody from goat specific for Syndecan-4 is added   |
|                  | subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase   |
|                  | Complex is added and unbound conjugates are washed away with PBS or TBS buffer. HRP  |
|                  | substrate TMB are used to visualize HRP enzymatic reaction. TMB is catalyzed by HRP to   |
|                  | produce a blue color product that changed into yellow after adding acidic stop solution. The   |
|                  | density of yellow is proportional to the human Syndecan-4 amount of sample captured in plate.  |
| Assay Procedure: | Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL,   |
|                  | 125pg/mL, 62.5pg/mL human Syndecan-4 standard solutions into the precoated 96-well plate.  |
|                  | Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each  |
|                  | properly diluted sample of human cell culture supernates or serum to each empty well. See  |
|                  | "Sample Dilution Guideline" above for details. It is recommended that each human Syndecan-4  |
|                  | standard solution and each sample be measured in duplicate.  |
| Assay Precision: | Sample 1: n=16, Mean(pg/ml): 630, Standard deviation: 26.5, CV(%): 4.2   |
|                  | Sample 2: n=16, Mean(pg/ml): 1447, Standard deviation: 83.9, CV(%): 5.8  |
|                  | <ul> <li>Sample 3: n=16, Mean(pg/ml): 2135, Standard deviation: 100.3, CV(%): 4.7,</li> </ul>  |
|                  | <ul> <li>Sample 1: n=24, Mean(pg/ml): 718, Standard deviation: 35.2, CV(%): 4.9</li> </ul>   |
|                  | <ul> <li>Sample 2: n=24, Mean(pg/ml): 1604, Standard deviation: 104.3, CV(%): 6.5</li> <li>Sample 2: n=24, Mean(pg/ml): 2260, Standard deviation: 120, 8, CV(%): 5, 1</li> </ul> |
|                  | <ul> <li>Sample 3: n=24, Mean(pg/ml): 2369, Standard deviation: 120.8, CV(%): 5.1</li> </ul>   |
| Restrictions:    | For Research Use only  |
| Handling         |  |
| Handling Advice: | Avoid multiple freeze-thaw cycles.   |
| Storage:         | -20 °C,4 °C  |
| Storage Comment: | Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles   |
| Expiry Date:     | 12 months  |
|                  |  |



#### **ELISA**

**Image 1.** Human Syndecan-4/SDC4 PicoKine ELISA Kit standard curve

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