

## STC2 elisa kit

Human STC2 PicoKine ELISA Kit

CATALOG #  
**AAA125111**

REACTIVITY  
**Human**There is no detectable cross-reactivity with other relevant proteins.

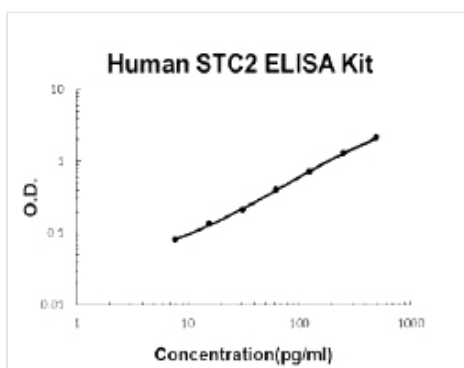
### PRODUCT SYNONYMS

STC2; Human STC2 PicoKine ELISA Kit; Human STC2; Stanniocalcin-2; STC-2; Stanniocalcin-related protein; STC-related protein; STCRP; Stanniocalcin 2; STC2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human<br>There is no detectable cross-reactivity with other relevant proteins.                                                                        |
| Specificity             | Natural and recombinant Human SMOC2                                                                                                                   |
| Sequence Length         | 302                                                                                                                                                   |
| Samples                 | Cell Culture Supernates, Serum And Plasma (Heparin, Edta)                                                                                             |
| Detection Range         | 62.5pg/ml-4000pg/ml                                                                                                                                   |
| Sensitivity             | <10pg/ml                                                                                                                                              |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision      |
| Inter-assay Precision   | Inter-Assay Precision (Precision accross assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage | Store at 4 degree C for 6 months. Store at -20 degree C for 12 months.<br>Avoid multiple freeze-thaw cycles.                                          |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

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| Related Product Information for STC2 elisa kit | <p>Principle of the Assay: The Picokine Human SMOC2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human SMOC2 with a 96-well strip plate that is pre-coated with antibody specific for SMOC2. The detection antibody is a biotinylated antibody specific for SMOC2. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human SMOC2 with immunogen: Expression system for standard: CHO, Immunogen sequence: Q22-G446. The kit is analytically validated with ready to use reagents. To measure Human SMOC2, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly propotional to Human SMOC2 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human SMOC2 in the sample!!Background/Introduction: SPARC-related modular calcium-binding protein 2 is a protein that in humans is encoded by the SMOC2 gene. This gene encodes a member of the SPARC family (secreted protein acidic and rich in cysteine/osteonectin/BM-40), which are highly expressed during embryogenesis and wound healing. The gene product is a matricellular protein which promotes matrix assembly and can stimulate endothelial cell proliferation and migration, as well as angiogenic activity. Associated with pulmonary function, this secretory gene product contains a Kazal domain, two thymoglobulin type-1 domains, and two EF-hand calcium-binding domains. The encoded protein may serve as a target for controlling angiogenesis in tumor growth and myocardial ischemia. Alternative splicing results in multiple transcript variants.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|-----------------------------------|
| NCBI GI #                        | 4507267                           |
| NCBI GeneID                      | 8614                              |
| NCBI Accession #                 | NP_003705.1                       |
| NCBI GenBank Nucleotide #        | NM_003714.2                       |
| UniProt Accession #              | O76061                            |
| Molecular Weight                 | 33,249 Da                         |
| NCBI Official Full Name          | stanniocalcin-2                   |
| NCBI Official Synonym Full Names | stanniocalcin 2                   |
| NCBI Official Symbol             | STC2                              |
| NCBI Official Synonym Symbols    | STC-2; STCRP                      |
| NCBI Protein Information         | stanniocalcin-2                   |
| UniProt Protein Name             | Stanniocalcin-2                   |
| UniProt Gene Name                | STC2                              |
| UniProt Synonym Gene Names       | STC-2; STC-related protein; STCRP |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/stc2/125111>