

## Human Endostatin ELISA Kit | COL18A1 elisa kit

Human Endostatin PicoKine ELISA Kit

CATALOG #  
**AAA45522**

REACTIVITY  
**Human**

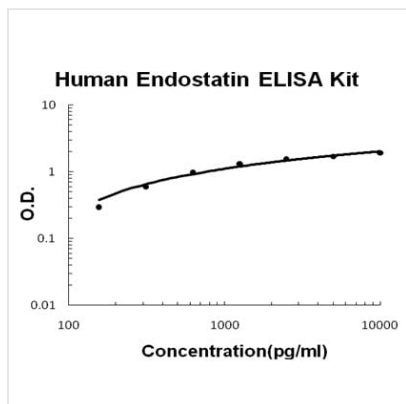
### PRODUCT SYNONYMS

Endostatin; Human Endostatin PicoKine ELISA Kit; Collagen alpha-1(XVIII) chain; collagen; type XVIII; alpha 1; Alpha 1 collagen type 18 (XVIII)(COL18A1); Alpha 1 type XVIII collagen; Antiangiogenic agent; COL18A1; Collagen alpha 1(XVIII) chain; Collagen type XVIII alpha 1; FLJ27325; FLJ34914; KNO; KNO1; MGC74745; Multi functional protein MFP; OTTMUSP00000023764; OTTMUSP00000023766; Procollagen type XVIII alpha 1; COL18A1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                 |
| Specificity             | Natural and recombinant human Endostatin                                                                                                              |
| Sequence Length         | 1,516                                                                                                                                                 |
| Samples                 | Cell culture supernates, serum, plasma (heparin, EDTA) and human milk                                                                                 |
| Assay Type              | Sandwich                                                                                                                                              |
| Detection Range         | 156pg/ml-10,000pg/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 between 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, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)                            |

### IMAGES



Standard Curve (Sample)

Human Endostatin PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Related Product Information for COL18A1 elisa kit | <p><b>Principle of the assay:</b> human Endostatin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from human specific for Endostatin has been precoated onto 96-well plates. Standards(E.coli, H1154-S1335) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Endostatin is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was 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 Endostatin amount of sample captured in plate.</p> <p><b>Background:</b> Endostatin is a naturally-occurring 20-kDa C-terminal fragment derived from type XVIII collagen. It is reported to serve as an anti-angiogenic agent, similar toangiostatin and thrombospondin. And It is produced by proteolytic cleavage of collagen XVIII, a member of the multiplexin family that is characterized by interruptions in the triple helix creating multiple domains, by proteases such as cathepsins. Using a genomic clone as a probe for fluorescence in situ hybridization, Endostatin was mapped the COL18A1 gene to 21q22.3. By immunoprecipitation analysis using membrane fractions of human mammary epithelial cells, It showed that endostatin specifically bound to cell surface nucleolin with high affinity. Blockage of nucleolin with neutralizing antibody or knockdown of nucleolin by RNA interference countered the antiendothelial activity of endostatin and abrogated its antiangiogenic and antitumor activity in vivo.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| NCBI GeneID                      | 80781                                                                                                                        |
| UniProt Accession #              | D3DSM5; P39060                                                                                                               |
| Molecular Weight                 | 153,767 Da                                                                                                                   |
| NCBI Official Synonym Full Names | collagen, type XVIII, alpha 1                                                                                                |
| NCBI Official Symbol             | COL18A1                                                                                                                      |
| NCBI Official Synonym Symbols    | KS; KNO; KNO1                                                                                                                |
| NCBI Protein Information         | collagen alpha-1(XVIII) chain; collagen alpha-1(XVIII) chain; endostatin; antiangiogenic agent; multi-functional protein MFP |
| UniProt Protein Name             | Collagen, type XVIII, alpha 1, isoform CRA_b                                                                                 |
| UniProt Gene Name                | COL18A1                                                                                                                      |
| UniProt Entry Name               | D3DSM5_HUMAN                                                                                                                 |

**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/col18a1-human-elisa-kits/endostatin/45522>