

## Mouse Endostatin ELISA Kit | COL18A1 elisa kit

Mouse Endostatin PicoKine Quick ELISA Kit

|                               |                            |                              |
|-------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA126838</b> | REACTIVITY<br><b>Mouse</b> | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|----------------------------|------------------------------|

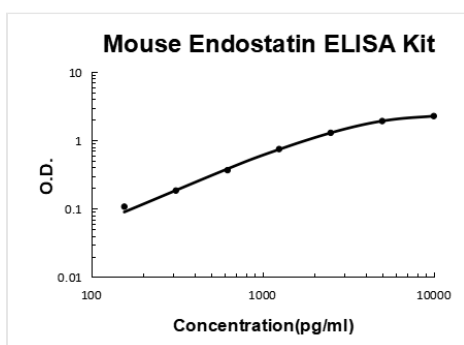
### PRODUCT SYNONYMS

Endostatin; Mouse Endostatin PicoKine Quick ELISA Kit; COL18A1 elisa kit

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                    | Mouse                                                                                                                                                                                           |
| Specificity                                   | Natural and recombinant Mouse Col18a1                                                                                                                                                           |
| Assay Type                                    | Sandwich                                                                                                                                                                                        |
| Samples                                       | Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)                                                                                                                       |
| Detection Range                               | 156 pg/ml - 10,000 pg/ml                                                                                                                                                                        |
| Sensitivity                                   | <10 pg/ml                                                                                                                                                                                       |
| Applicable Applications for COL18A1 elisa kit | ELISA                                                                                                                                                                                           |
| 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 across 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 (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.) |

### IMAGES



Standard Curve (Sample)

Mouse Endostatin PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

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| Related Product Information for COL18A1 elisa kit | <p>Background: 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 to angiostatin 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> <p>Principle of the Assay: The Quick Picokine™ Mouse Col18a1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Mouse Col18a1 in cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit includes Mouse Col18a1 protein as standards. To measure Mouse Col18a1, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Mouse Col18a1 in the sample. Read the absorbance 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 Mouse Col18a1 in the sample.</p> |
| Product Categories/Family for COL18A1 elisa kit   | PicoKine ELISA Kits, Fast ELISA Kits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                            |
|----------------------------------|------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 158508560                                                                                                  |
| NCBI GeneID                      | 12822                                                                                                      |
| NCBI Accession #                 | NP_001103461.1                                                                                             |
| NCBI GenBank Nucleotide #        | NM_001109991.1                                                                                             |
| UniProt Accession #              | P39061; Q60672; Q61434; Q61437; Q62001; Q62002; Q6NZK9; Q6P1Y4; Q8CCZ8; Q9CRT2; Q9JK63                     |
| Molecular Weight                 | 134,204 Da                                                                                                 |
| NCBI Official Full Name          | collagen alpha-1(XVIII) chain isoform 1                                                                    |
| NCBI Official Synonym Full Names | collagen, type XVIII, alpha 1                                                                              |
| NCBI Official Symbol             | Col18a1                                                                                                    |
| NCBI Protein Information         | collagen alpha-1(XVIII) chain; collagen alpha-1(XVIII) chain; endostatin; procollagen, type XVIII, alpha 1 |
| UniProt Protein Name             | Collagen alpha-1(XVIII) chain                                                                              |
| UniProt Gene Name                | Col18a1                                                                                                    |
| UniProt Entry Name               | COIA1_MOUSE                                                                                                |

**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.