

Rat Endostatin ELISA Kit | COL18A1 elisa kit

Rat Endostatin PicoKine ELISA Kit

CATALOG #
AAA46767

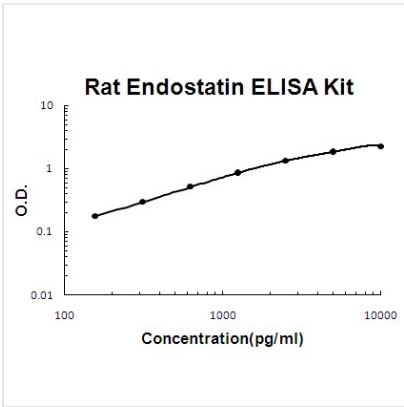
REACTIVITY
Rat

PRODUCT SYNONYMS

Endostatin; Rat Endostatin PicoKine ELISA Kit; Alpha 1 type XVIII collagen; COIA1; COL18A1; Collagen alpha 1(XVIII) chain; Collagen alpha1(XVIII) chain; Collagen alpha-1(XVIII) chain; Collagen type XVIII alpha 1; collagen; type XVIII; alpha 1; KNO 1; KNO1; P39060; COL18A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat Endostatin
Sequence Length	171
Assay Range	156pg/ml-10000pg/ml
Sensitivity	<15pg/ml
Anticoagulant	heparin or EDTA
TMB incubation time	25-30
Immunogen	NSO, H1591-K1774
Sample Data	Concentration(pg/ml): 0 156 312 625 1250 2500 5000 10000 O.D.: 0.032 0.175 0.294 0.511 0.851 1.320 1.825 2.213
Intra/Inter Assay Precision	Sample: 1 2 3 1 2 3 n: 16 16 16 24 24 24 Mean(pg/ml): 339 1447 6124 415 1829 6450 Standard Deviation: 18.65 91.16 440.93 25.32 120.71 503.10 CV(%): 5.5 6.3 7.2 6.1 6.6 7.8
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml rat Endostatin standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of rat cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each rat Endostatin standard solution and each sample be measured in duplicate.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Rat Endostatin PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for COL18A1 elisa kit	For quantitative detection of rat Endostatin in cell culture supernates, cell lysates, tissue homogenates, serum and plasma (heparin, EDTA). 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. Principle: Rat Endostatin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from Mouse specific for Endostatin has been precoated onto 96-well plates. Standards (Expression system for standard: NSO, Immunogen sequence: H1591-K1774) 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 subRate 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 Rat Endostatin amount of sample captured in plate.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	81869869
NCBI GeneID	85251
UniProt Accession #	Q9WUW5
Molecular Weight	18,933 Da
NCBI Official Full Name	Collagen type XVIII, alpha (I) chain
NCBI Official Synonym Full Names	collagen type XVIII alpha 1 chain
NCBI Official Symbol	Col18a1
NCBI Protein Information	collagen alpha-1(XVIII) chain
UniProt Protein Name	Collagen type XVIII, alpha (I) chain
UniProt Gene Name	Col18a1

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-rat-elisa-kits/endostatin/46767>