

Rat Collagen 18 alpha 1 ELISA Kit | COL18A1 elisa kit

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CATALOG #
AAA263157

REACTIVITY
Rat

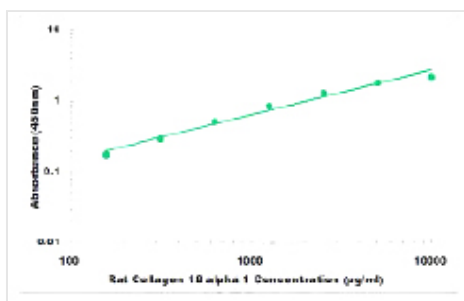
PRODUCT SYNONYMS

Collagen 18 alpha 1; Rat Collagen 18 alpha 1 ELISA Kit; Collagen alpha-1(XVIII) chain; COL18A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The Rat Collagen 18 alpha 1 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat Collagen 18 alpha 1 proteins within the range of 156 pg/ml - 10000 pg/ml.
Sequence Length	171
Samples	Cell Culture Supernates, Serum, Plasma
Sensitivity	<15 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL18A1 elisa kit	Principle of the Assay: The Rat Collagen 18 alpha 1 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat Collagen 18 alpha 1 in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Rat Collagen 18 alpha 1 coated on a 96-well plate. Standards and samples are pipetted into the wells and Collagen 18 alpha 1 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat Collagen 18 alpha 1 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Collagen 18 alpha 1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. 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.
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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
UniProt Entry Name	Q9WUW5_RAT

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.