

Datasheet for ABIN6720085 **COL18A1 ELISA Kit**



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Overview

Quantity:	1 kit
Target:	COL18A1
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: 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</p> <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</p>

Product Details

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.

Gene Name: COL18A1

Production: Natural and recombinant mouse Endostatin. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: H1591-K1774

Target Details

Target: COL18A1

Alternative Name: Endostatin ([COL18A1 Products](#))

Target Type: Chemical

Gene ID: 12822

NCBI Accession: [NP_001103461](#)

UniProt: [P39061](#)

Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL mouse Endostatin standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse Endostatin standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 156pg/mL-10,000pg/mL

Other Performance Data: DOE: 2-8° C - 11/4/18 -20° C - 5/4/19

Sample Volume: 100 µL

Application Details

Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage: RT, 4 °C, -20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.