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# Datasheet for ABIN1672824 COL18A1 ELISA Kit

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### Overview

Quantity:	96 tests
Target:	COL18A1
Binding Specificity:	AA 1154-1335
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

## Product Details

Purpose: Brand:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Endostatin PicoKine™
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Milk
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: H1154-S1335
Specificity:	Expression system for standard: E.coli Immunogen sequence: H1154-S1335
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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## Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

## Target Details

Target:	COL18A1
Alternative Name:	Endostatin (COL18A1 Products)
Target Type:	Chemical
Background:	Protein Function: COLA18A probably plays a major role in determining the retinal structure as
	well as in the closure of the neural tube.
	Background: Endostatin is a naturally-occurring 20- kDa C-terminal fragment derived from typ
	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 fluorescenc
	in situ hybridization, Endostatin was mapped the COL18A1 gene to 21q22.3. By
	immunoprecipitation analysis using membrane fractions of human mammary epithelial cells,
	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.
	Synonyms: Collagen alpha-1(XVIII) chain,Endostatin,COL18A1,
	Full Gene Name: Collagen alpha-1(XVIII) chain
	Cellular Localisation: Secreted, extracellular space, extracellular matrix.
Gene ID:	80781
JniProt:	P39060
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

assay was recommended for both standard and sample testing.

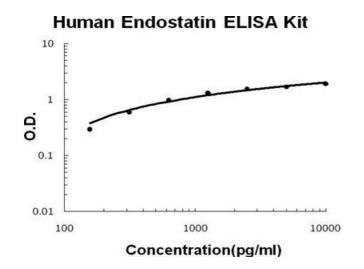
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Application Details	
Comment:	Sequence similarities: Belongs to the multiplexin collagen family.
	Tissue Specificity: Present in multiple organs with highest levels in liver, lung and kidney.
Plate:	Pre-coated
Protocol:	human Endostatin ELISA Kit was 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(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.
Assay Procedure:	Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,
	312pg/mL, 156pg/mL human 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 human cell culture supernates, serum, plasma(heparin, EDTA) or
	human milk to each empty well. See "Sample Dilution Guideline" above for details. It is
	recommended that each human Endostatin standard solution and each sample be measured in
	duplicate.
Assay Precision:	<ul> <li>Sample 1: n=16, Mean(ng/ml): 0.75, Standard deviation: 0.054, CV(%): 7.2</li> </ul>
	• Sample 2: n=16, Mean(ng/ml): 2.59, Standard deviation: 0.168, CV(%): 6.5
	<ul> <li>Sample 3: n=16, Mean(ng/ml): 5.21, Standard deviation: 0.224, CV(%): 4.3,</li> <li>Sample 1: n=24, Mean(ng/ml): 0.89, Standard deviation: 0.072, CV(%): 8.1</li> </ul>
	<ul> <li>Sample 1: n=24, Mean(ng/ml): 0.09, Standard deviation: 0.072, CV(%): 0.1</li> <li>Sample 2: n=24, Mean(ng/ml): 2.46, Standard deviation: 0.177, CV(%): 7.2</li> </ul>
	• Sample 3: n=24, Mean(ng/ml): 5.16, Standard deviation: 0.346, CV(%): 6.7
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

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Benli, Ayyildiz, Cirrik, Koktürk, Cirakoglu, Noyan, Ayyildiz, Germiyanoglu: "The effect of tadalafil therapy on kidney damage caused by sepsis in a polymicrobial septic model induced in rats: a biochemical and histopathological study." in: **International braz j urol : official journal of the Brazilian Society of Urology**, Vol. 43, Issue 2, pp. 345-355, (2017) (PubMed).

### Images



#### **ELISA**

Image 1. Human Endostatin PicoKine ELISA Kit standard curve

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