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Datasheet for ABIN1672790 Decorin ELISA Kit

Image



#### Overview

Quantity:	96 tests
Target:	Decorin (DCN)
Binding Specificity:	AA 31-359
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Decorin
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: D31-K359
Specificity:	Expression system for standard: NSO Immunogen sequence: D31-K359
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

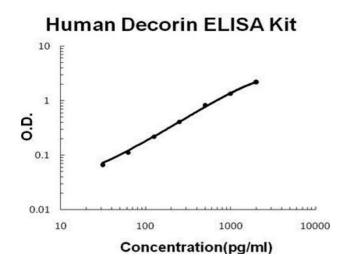
## Target Details

Target:	Decorin (DCN)
Alternative Name:	DCN (DCN Products)
Background:	Protein Function: May affect the rate of fibrils formation.
	Background: Decorin is a proteoglycan on average 90 - 140 kilodaltons(kD) in size.It belongs to
	the small leucine-rich proteoglycan(SLRP) family and consists of a protein core containing
	leucine repeats with a glycosaminoglycan(GAG) chain consisting of either chondroitin
	sulfate(CS) or dermatan sulfate(DS).Using a genomic clone as the labeled probe and in situ
	hybridization of human metaphase chromosomes, decorin gene was mapped to the discrete
	region of human chromosome 12q23. Decorin is capable of suppressing the growth of various
	tumor cell lines when expressed ectopically.
	Synonyms: Decorin,Bone proteoglycan II,PG-S2,PG40,DCN,SLRR1B,
	Full Gene Name: Decorin
	Cellular Localisation: Secreted, extracellular space, extracellular matrix.
Gene ID:	1634
UniProt:	P07585
Pathways:	Glycosaminoglycan Metabolic Process
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.
Comment:	Sequence similarities: Belongs to the small leucine-rich proteoglycan (SLRP) family. SLRP class
	l subfamily.
Plate:	Pre-coated
Protocol:	human Decorin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for Decorin has been precoated

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## Application Details

	onto 96-well plates. Standards(NSO, D31-K359) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for Decorin 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 Decorin amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL,
	62.5pg/mL, 31.2pg/mL human Decorin 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 or plasma(heparin, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each human Decorin standard solution and each sample be measured in duplicate.
Assay Precision:	<ul> <li>Sample 1: n=16, Mean(pg/ml): 128, Standard deviation: 5.76, CV(%): 4.5</li> </ul>
	• Sample 2: n=16, Mean(pg/ml): 645, Standard deviation: 41.28, CV(%): 6.4
	<ul> <li>Sample 3: n=16, Mean(pg/ml): 1274, Standard deviation: 72.62, CV(%): 5.7,</li> </ul>
	<ul> <li>Sample 1: n=24, Mean(pg/ml): 139, Standard deviation: 8.48, CV(%): 6.1</li> </ul>
	<ul> <li>Sample 2: n=24, Mean(pg/ml): 677, Standard deviation: 56.9, CV(%): 8.4</li> </ul>
	• Sample 3: n=24, Mean(pg/ml): 1333, Standard deviation: 89.31, 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



#### **ELISA**

Image 1. Human Decorin PicoKine ELISA Kit standard curve

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