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Datasheet for ABIN1672791

Decorin ELISA Kit





Overview

Quantity:	96 tests
Target:	Decorin (DCN)
Binding Specificity:	AA 31-354
Reactivity:	Mouse
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 Mouse 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-K354
Specificity:	Expression system for standard: NSO Immunogen sequence: D31-K354
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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, Full Gene Name: Decorin Cellular Localisation: Secreted, extracellular space, extracellular matrix.
Gene ID:	13179
UniProt:	P28654
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 I 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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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:

- Sample 1: n=16, Mean(pg/ml): 112, Standard deviation: 5.04, CV(%): 4.5
- Sample 2: n=16, Mean(pg/ml): 545, Standard deviation: 23.98, CV(%): 4.4
- Sample 3: n=16, Mean(pg/ml): 1234, Standard deviation: 70.34, CV(%): 5.7,
- Sample 1: n=24, Mean(pg/ml): 129, Standard deviation: 9.29, CV(%): 7.2
- Sample 2: n=24, Mean(pg/ml): 577, Standard deviation: 42.7, CV(%): 7.4
- Sample 3: n=24, Mean(pg/ml): 1333, Standard deviation: 90.64, CV(%): 6.8

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. Mouse Decorin PicoKine ELISA Kit standard curve