abcam

Product datasheet

Human Decorin ELISA Kit (DCN) ab99998

1 Abreviews 3 References 2 Images

Overview

Product name	Human Decorin ELISA Kit (DCN)
Detection method	Colorimetric
Sample type	Cell culture supernatant, Serum, Plasma
Assay type	Sandwich (quantitative)
Sensitivity	< 1.5 pg/ml
Range	0.96 pg/ml - 700 pg/ml
Recovery	> 93 %

Sample specific recovery

Sample type	Average %	Range
Cell culture supernatant	93.82	84% - 104%
Serum	122.5	111% - 130%
Plasma	111.8	103% - 119%

Assay duration	Multiple steps standard assay
Species reactivity	**Reacts with:** Human
Product overview	Abcam's Decorin (DCN) Human ELISA (Enzyme-Linked Immunosorbent Assay) kit is an *in vitro* enzyme-linked immunosorbent assay for the quantitative measurement of Human Decorin in serum, plasma, and cell culture supernatants. This assay employs an antibody specific for Human Decorin coated on a 96-well plate. Standards and samples are pipetted into the wells and Decorin present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti Human Decorin 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 Decorin bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.
Notes	Optimisation may be required with urine samples. The standard is affinity purified.

Platform Microplate

Properties

Storage instructions Store at -20°C. Please refer to protocols.

Components	1 x 96 tests
200X HRP-Streptavidin Concentrate	1 x 200µl
20X Wash Buffer	1 x 25ml
5X Assay Diluent	1 x 15ml
Biotinylated anti-Human Decorin	2 vials
Decorin Microplate (12 x 8 well strips)	1 unit
Recombinant Human Decorin Standard (lyophilized)	2 vials
Stop Solution	1 x 8ml
TMB One-Step Substrate Reagent	1 x 12ml

Function May affect the rate of fibrils formation.

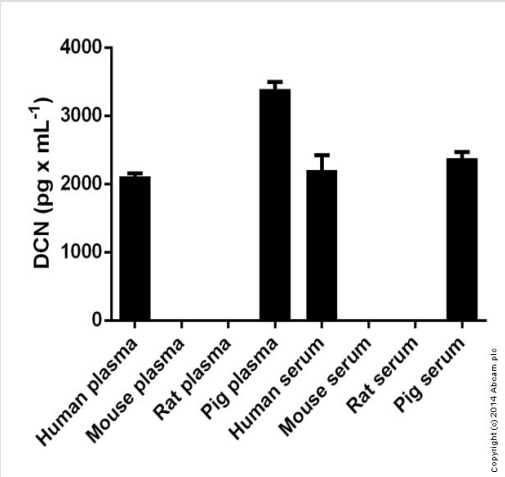
Involvement in disease Defects in DCN are the cause of congenital stromal corneal dystrophy (CSCD) [MIM:610048]. Corneal dystrophies are inherited, bilateral, primary alterations of the cornea that are not associated with prior inflammation or secondary to systemic disease. Most show autosomal dominant inheritance.

Sequence similarities Belongs to the small leucine-rich proteoglycan (SLRP) family. SLRP class I subfamily. Contains 12 LRR (leucine-rich) repeats.

Post-translational modifications The attached glycosaminoglycan chain can be either chondroitin sulfate or dermatan sulfate depending upon the tissue of origin.

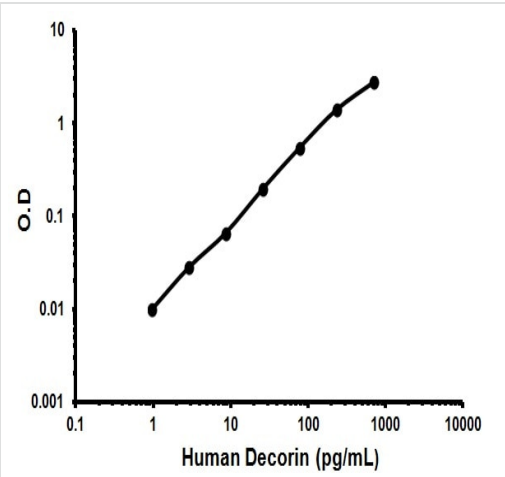
Cellular localization Secreted > extracellular space > extracellular matrix.

Images



Sandwich ELISA - Decorin(ab99998)

DCN measured in biological fluids showing quantity (pg) per mL of tested sample



Typical Standard Curve

Representative Standard Curve using ab99998.

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