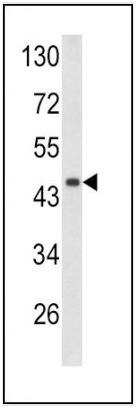
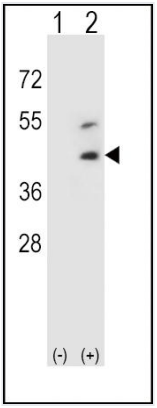
DCN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

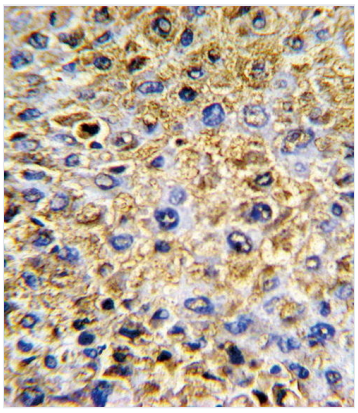
Product Name	DCN, Polyclonal Antibody
Full Product Name	DCN, ID (DCN, Bone Proteoglycan II, CSCD, DSPG2, PG40, PGII, PGS2, Small Leucine Rich Protein 1B, SLRR1B) (MaxLight 490)
Product Gene Name	anti-DCN antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human DCN. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	38.6kDa (350aa)
OMIM	gene 610048
3D Structure	ModBase 3D Structure for P07585
Immunogen	Synthetic peptide selected from the center region of human DCN (KLH).
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-DCN antibody	Antibodies; Carbohydrates; Glycoproteins
Applications Tested/Suitable for anti-DCN antibody	Western Blot (WB), FLISA
Application Notes for anti-DCN antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-DCN antibody	MBS6472158 is an antibody targeting DCN. Also known as DCN, ID (DCN, Bone Proteoglycan II, CSCD, DSPG2, PG40, PGII, PGS2, Small Leucine Rich Protein 1B, SLRR1B) (MaxLight 490). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-DCN antibody	1. Goldoni, S., J. Cell Biol. 185(4), 743-754 (2009).
Other Notes	Small volumes of anti-DCN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



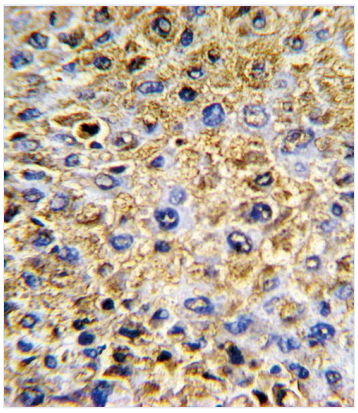
Western Blot (WB) of anti-DCN antibody
Western blot analysis of DCN antibody (Center) in mouse heart tissue lysates (35ug/lane). DCN (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-DCN antibody
Western blot analysis of DCN (arrow) using rabbit polyclonal DCN Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DCN gene.



Immunohistochemistry (IHC) of anti-DCN antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma with DCN Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-DCN antibody
DCN Antibody (Center) flow cytometry analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DCN. It may not necessarily be applicable to this product.

NCBI GI #	4503271
NCBI GeneID	1634
NCBI Accession #	NP_001911
UniProt Primary Accession #	P07585
UniProt Secondary Accession #	Q9P0Z0; Q9P0Z1; Q9Y5N8; Q9Y5N9
UniProt Related Accession #	P07585
GenBank Nucleotide #	NM_001920.4
NCBI Official Full Name	decorin isoform a preproprotein
NCBI Official Synonym Full Names	decorin
NCBI Official Symbol	DCN
NCBI Official Synonym Symbols	CSCD; PG40; PGII; PGS2; DSPG2; SLRR1B
UniProt Protein Name	Decorin
UniProt Synonym Protein Names	Bone proteoglycan II; PG-S2; PG40

Protein Family	Decorin
UniProt Gene Name	DCN
UniProt Synonym Gene Names	SLRR1B
UniProt Entry Name	PGS2_HUMAN
NCBI Protein Information	decorin
NCBI Summary for DCN	This gene encodes a member of the small leucine-rich proteoglycan family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protein. This protein plays a role in collagen fibril assembly. Binding of this protein to multiple cell surface receptors mediates its role in tumor suppression, including a stimulatory effect on autophagy and inflammation and an inhibitory effect on angiogenesis and tumorigenesis. This gene and the related gene biglycan are thought to be the result of a gene duplication. Mutations in this gene are associated with congenital stromal corneal dystrophy in human patients. [provided by RefSeq, Nov 2015]
UniProt Comments for DCN	DCN: May affect the rate of fibrils formation. Defects in DCN are the cause of congenital stromal corneal dystrophy (CSCD). 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. Belongs to the small leucine-rich proteoglycan (SLRP) family. SLRP class I subfamily. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Secreted, signal peptide; Secreted; Extracellular matrix Chromosomal Location of Human Ortholog: 12q21.33 Cellular Component: extracellular matrix; proteinaceous extracellular matrix; extracellular space; lysosomal lumen; Golgi lumen; extracellular region; collagen type VI Molecular Function: collagen binding; glycosaminoglycan binding; extracellular matrix binding; protein N-terminus binding Biological Process: skeletal muscle development; extracellular matrix organization and biogenesis; chondroitin sulfate biosynthetic process; wound healing; glycosaminoglycan metabolic process; pathogenesis; response to lipopolysaccharide; dermatan sulfate biosynthetic process; chondroitin sulfate metabolic process; extracellular matrix disassembly; organ morphogenesis; response to mechanical stimulus; carbohydrate metabolic process; chondroitin sulfate catabolic process; kidney development; peptide cross-linking via chondroitin 4-sulfate glycosaminoglycan; aging; placenta development Disease: Corneal Dystrophy, Congenital Stromal
Research Articles on DCN	**1.** Genetic screening showed a deletion of chromosome 12q21.33-q22 containing the identified four small leucine-rich proteoglycans (SLRP's) associated with this particular dystrophy.
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