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DCN Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6590c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P07585
Other Accession	Q9XSD9, P21793
Reactivity	Human, Mouse
Predicted	Rat, Rabbit, Pig, Chicken, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19595
Calculated MW	39747
Antigen Region	122-150

Additional Information

Gene ID	1634
Other Names	Decorin, Bone proteoglycan II, PG-S2, PG40, DCN, SLRR1B
Target/Specificity	This DCN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 122-150 amino acids from the Central region of human DCN.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DCN Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DCN
Synonyms	SLRR1B

Function	May affect the rate of fibrils formation.
Cellular Location	Secreted, extracellular space, extracellular matrix. Secreted
Tissue Location	Detected in placenta (at protein level) (PubMed:32337544). Detected in cerebrospinal fluid, fibroblasts and urine (at protein level) (PubMed:25326458, PubMed:36213313, PubMed:37453717).

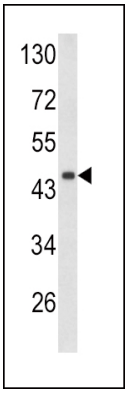
Background

DCN is a small cellular or pericellular matrix proteoglycan that is closely related in structure to biglycan protein. The protein and biglycan are thought to be the result of a gene duplication. This protein is a component of connective tissue, binds to type I collagen fibrils, and plays a role in matrix assembly. It contains one attached glycosaminoglycan chain. This protein is capable of suppressing the growth of various tumor cell lines.

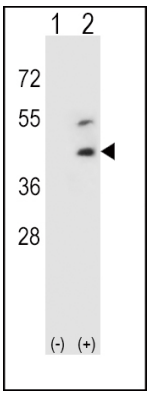
References

Goldoni,S., J. Cell Biol. 185 (4), 743-754 (2009)

Images

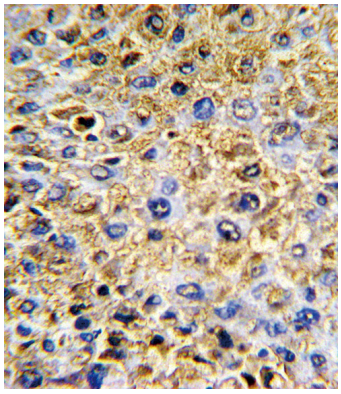


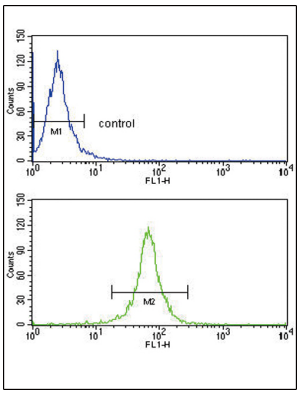
Western blot analysis of DCN antibody (Center) (Cat. #AP6590c) in mouse heart tissue lysates (35ug/lane). DCN (arrow) was detected using the purified Pab.



Western blot analysis of DCN (arrow) using rabbit polyclonal DCN Antibody (Center) (Cat. #AP6590c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DCN gene.

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.





DCN Antibody (Center) (Cat.#AP6590c) 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.

Citations

- Proteomic analysis of the effect of extracellular calcium ions on human mesenchymal stem cells: implications for bone tissue engineering.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.