10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DCN Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1845a

Specification

DCN Antibody - Product Information

Application	**WB, FC, E**
Primary Accession	P07585
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**39.7kDa KDa**

Description
The protein encoded by this gene is a small cellular or pericellular matrix proteoglycan that is closely related in structure to biglycan protein. The encoded 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. There are multiple alternatively spliced transcript variants known for this gene. This gene is a candidate gene for Marfan syndrome.

Immunogen
Purified recombinant fragment of human DCN (AA: 263-324) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

DCN Antibody - Additional Information

Gene ID 1634

Other Names
Decorin, Bone proteoglycan II, PG-S2, PG40, DCN, SLRR1B

Dilution
WB~~1/500 - 1/2000
FC~~1/200 - 1/400
E~~1/10000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DCN Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

DCN Antibody - Protein Information

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Name DCN

Synonyms SLRR1B

Function
May affect the rate of fibrils formation.

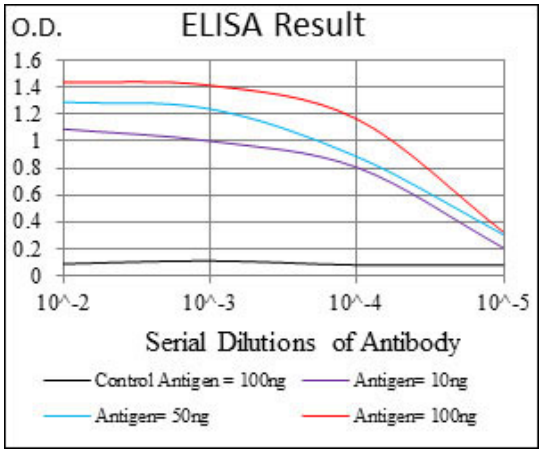
Cellular Location
Secreted, extracellular space, extracellular matrix. Secreted

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).

DCN Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

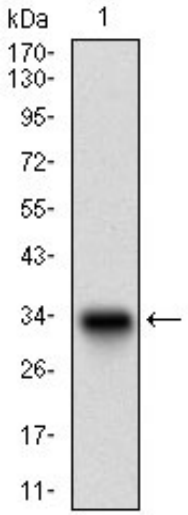


Figure 1: Western blot analysis using DCN mAb against human DCN recombinant protein. (Expected MW is 32.5 kDa)

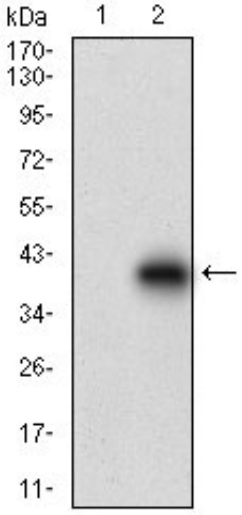


Figure 2: Western blot analysis using DCN mAb against HEK293 (1) and DCN (AA: 263-324)-hIgGFc transfected HEK293 (2) cell lysate.

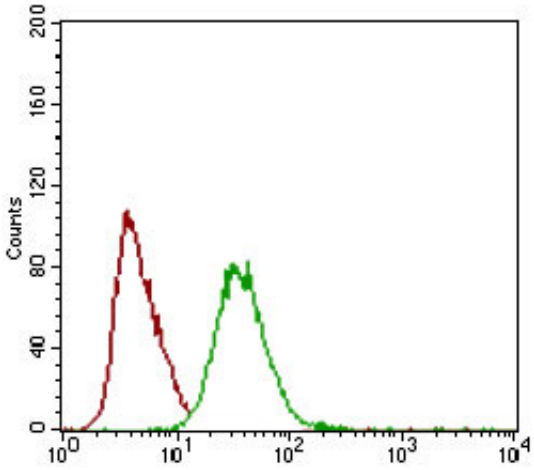


Figure 3: Flow cytometric analysis of HEK293 cells using DCN mouse mAb (green) and negative control (red).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DCN Antibody - Background

Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA IX is a transmembrane protein and the only tumor-associated carbonic anhydrase isoenzyme known. It is expressed in all clear-cell renal cell carcinoma, but is not detected in normal kidney or most other normal tissues. It may be involved in cell proliferation and transformation. This gene was mapped to 17q21.2 by fluorescence in situ hybridization, however, radiation hybrid mapping localized it to 9p13-p12. ;

DCN Antibody - References

1. PLoS One. 2012;7(9):e45559. 2. Hum Reprod. 2012 Nov;27(11):3249-58.