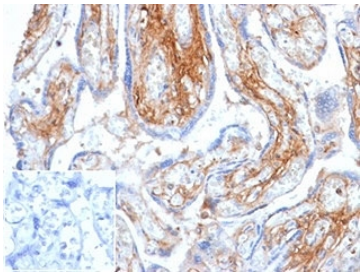
Decorin Antibody [clone DCN/6289] (V4008)

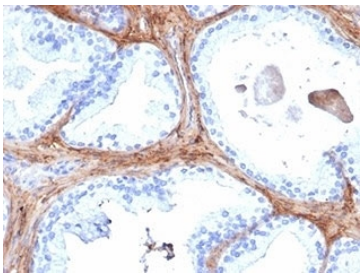
Catalog No.	Formulation	Size
V4008-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4008-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4008SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, lambda
Clone Name	DCN/6289
Purity	Protein A/G affinity
UniProt	P07585
Localization	Secreted
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Decorin antibody is available for research use only.



Decorin Antibody Human Placenta IHC. Immunohistochemistry of Decorin antibody in human placental tissue. Formalin-fixed, paraffin-embedded human placenta was stained using Decorin antibody (clone DCN/6289) at 2 ug/ml. Brown HRP-DAB chromogenic signal highlights extracellular stromal regions and perivascular connective tissue consistent with Decorin localization within the placental matrix. The inset negative control shows PBS used in place of primary antibody to assess non-specific secondary antibody binding, demonstrating absence of background staining.



Decorin Antibody Human Prostate Tissue IHC. Immunohistochemistry of Decorin antibody in human prostate tissue. Formalin-fixed, paraffin-embedded human prostate was stained using Decorin antibody (clone DCN/6289). Heat induced epitope retrieval was performed by boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 20 min followed by cooling prior to staining. HRP-DAB brown chromogenic signal highlights extracellular stromal connective tissue surrounding prostatic glands, consistent with Decorin localization within the collagen-rich matrix.

Description

Decorin Antibody detects Decorin, a secreted extracellular matrix proteoglycan encoded by the DCN gene and widely expressed in connective tissues. Clone DCN/6289 is a mouse monoclonal antibody developed for research applications investigating stromal biology, collagen organization, and extracellular matrix remodeling.

Decorin antibody, also referred to as DCN antibody and small leucine-rich proteoglycan decorin antibody in the literature, recognizes a member of the small leucine-rich proteoglycan family characterized by tandem leucine-rich repeat domains and a single dermatan sulfate or chondroitin sulfate glycosaminoglycan chain. Decorin binds to fibrillar collagens, particularly type I collagen, regulating collagen fibrillogenesis, fiber diameter, and matrix spacing. Through these structural interactions, Decorin contributes to tissue tensile strength and extracellular matrix integrity.

In addition to its structural role, Decorin interacts with growth factors and receptor tyrosine kinases, including transforming growth factor beta and epidermal growth factor receptor pathways, thereby influencing cell proliferation, differentiation, and migration. DCN expression is prominent in skin, tendon, ligament, cornea, skeletal muscle connective tissue, and organ stroma. In tissue-based studies, Decorin typically demonstrates extracellular stromal staining localized between collagen bundles and within connective tissue matrices.

Altered Decorin expression has been associated with fibrosis, impaired wound healing, and tumor progression, where extracellular matrix composition modulates cellular behavior and microenvironmental signaling. Decorin may function as a regulator of tumor growth by modulating growth factor availability and receptor activation. A Decorin Antibody such as clone DCN/6289 supports investigations into connective tissue development, fibrotic disease, tumor stroma composition, and extracellular matrix biology. This antibody targets Decorin in research applications and is available from NSJ Bioreagents.

This antibody can be compared with our Decorin Antibody (clone DCN/3521) for consistent detection of DCN across extracellular matrix and proteoglycan biology studies.

Application Notes

Optimal dilution of the Decorin antibody should be determined by the researcher.

For immunostaining, pre-incubation with chondroitinase-SBC or testicular hyaluronidase may be required to expose the epitope.

Immunogen

Recombinant full-length protein was used as the immunogen for the Decorin antibody.

Storage

Aliquot the Decorin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.