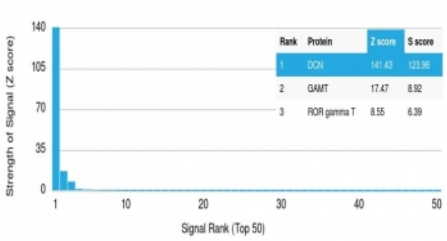
Decorin Antibody Microarray Validated / DCN [clone DCN/3521] (V5683)

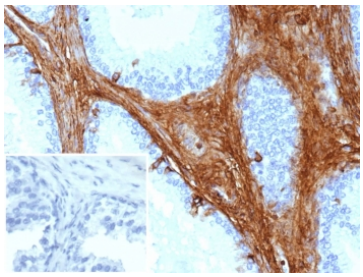
Catalog No.	Formulation	Size
V5683-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5683-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5683SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

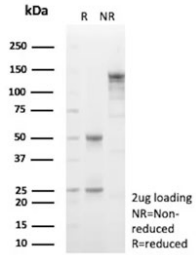
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	DCN/3521
Purity	Protein G affinity
UniProt	P07585
Localization	Secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Decorin antibody is available for research use only.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Decorin antibody (clone DCN/3521). These results demonstrate the foremost specificity of the microarray validated DCN/3521 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



IHC staining of FFPE human prostate carcinoma tissue with microarray validated Decorin antibody (clone DCN/3521). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Decorin antibody (clone DCN/3521) as confirmation of integrity and purity.

Description

Decorin Antibody Microarray Validated detects Decorin, a small leucine-rich proteoglycan encoded by the DCN gene and widely distributed within the extracellular matrix of connective tissues. Clone DCN/3521 is a mouse monoclonal antibody validated by protein microarray analysis to support high specificity for Decorin in research applications focused on matrix biology and tissue remodeling.

Decorin antibody, also referred to as DCN antibody and small leucine-rich proteoglycan decorin antibody in the literature, recognizes a secreted extracellular matrix protein characterized by leucine-rich repeat domains and a single glycosaminoglycan chain. Decorin binds to fibrillar collagens, including type I and type II collagen, where it regulates collagen fibrillogenesis and fiber spacing. Through interactions with transforming growth factor beta and other growth factors, Decorin modulates cell proliferation, differentiation, and extracellular matrix organization.

DCN is highly expressed in skin, tendon, ligament, cornea, and other collagen-rich tissues. In histologic analyses, Decorin typically demonstrates extracellular stromal staining distributed between collagen bundles and surrounding connective tissue frameworks. This pattern makes a Decorin Antibody Microarray Validated particularly useful for studies of fibrosis, wound healing, tumor stroma composition, and connective tissue development.

Altered Decorin expression has been implicated in fibrotic disorders, cancer progression, and abnormal scar formation, where dysregulated extracellular matrix composition influences cellular behavior. Decorin can also act as a tumor suppressive matrix component by sequestering growth factors and modulating receptor signaling pathways. A Decorin Antibody Microarray Validated such as clone DCN/3521 supports investigations into extracellular matrix structure, stromal-tumor interactions, and connective tissue pathology. This antibody targets DCN in research applications and is available from NSJ Bioreagents.

Application Notes

Optimal dilution of the microarray validated 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

A recombinant human Decorin partial protein (within amino acids 212-336) was used as the immunogen for the microarray validated Decorin antibody.

Storage

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