

Product Datasheet

Decorin Antibody - BSA Free NBP1-57923

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-57923

Decorin Antibody - BSA Free

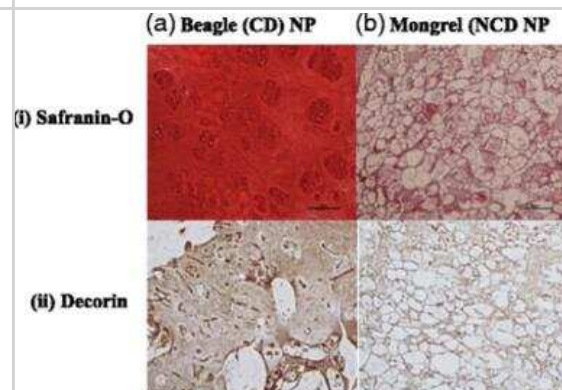
Product Information	
Unit Size	100 ul
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS, 2% Sucrose
Target Molecular Weight	36 kDa
Product Description	
Description	The addition of 50% glycerol is optional for those storing this antibody at -20C and not aliquoting smaller units. However, please note that glycerol may interrupt some downstream antibody applications and should be added with caution.
Host	Rabbit
Gene ID	1634
Gene Symbol	DCN
Species	Human, Canine
Reactivity Notes	Canine reactivity reported in scientific literature (PMID: 26341258).
Immunogen	Synthetic peptides corresponding to DCN(decorin) The peptide sequence was selected from the N terminal of DCN. Peptide sequence IGPEVPDDRDFEPSLGPVCPFRCQCHLRVVQCSDLGLDKVPKDLPPDTTL. The peptide sequence for this immunogen was taken from within the described region.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1.0 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:10-1:500
Application Notes	This Decorin Antibody is validated for ICC/IF from a verified customer review.

Images

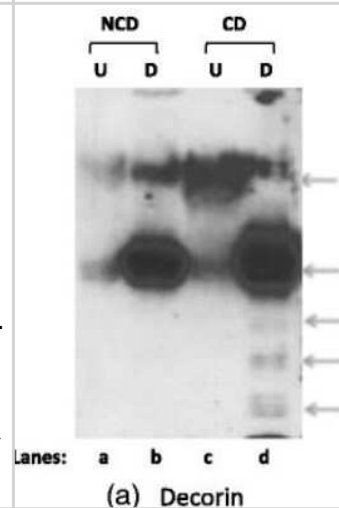
Western Blot: Decorin Antibody [NBP1-57923] - Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human Placenta



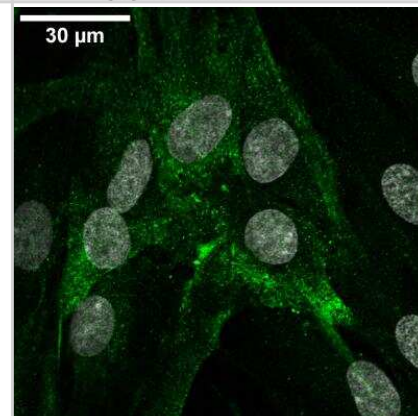
Immunohistochemistry: Decorin Antibody [NBP1-57923] - Comparative immunohistochemical analysis of non-chondrodystrophic (NCD) and chondrodystrophic (CD) canine nucleus pulposus (NP) expression and distribution of decorin. For all extracellular matrix (ECM) proteins, the NCD canine intervertebral disc NP reveals a cobweb appearance, demonstrating intense staining for all proteins located in the areas tightly between the cells. The overall appearance of the CD NP bears a strong resemblance to a fibrocartilaginous phenotype that is distinctly different from the NCD canine NP. Image collected and cropped by CiteAb from the following publication (<https://arthritis-research.com/content/17/1/240>) licensed under a CC-BY license.



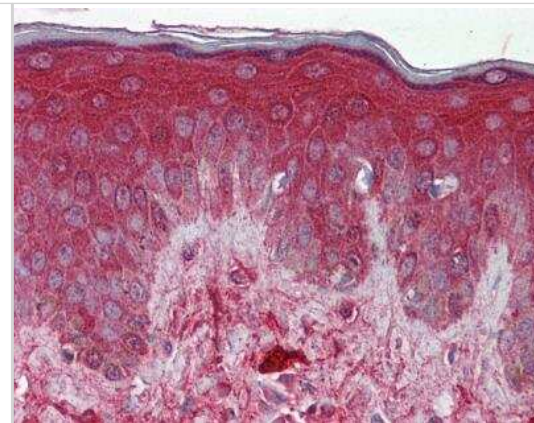
Western Blot: Decorin Antibody [NBP1-57923] - Western blots depicting the expression of decorin after proteoglycan extraction from non-chondrodystrophic (NCD) and chondrodystrophic (CD) canine intervertebral disc (IVD) nucleus pulposus (NP). Lane (a) is undigested (U) proteoglycan extract from NCD (mongrel) and lane (c) is from CD (beagle) canine NP. Lanes (b) & (d) depict the detection of the specific small leucine-rich proteoglycan (SLRP) indicated above after digestion (D) with chondroitinase ABC and keratinase in NCD canine (lane b) and CD canine (lane d). Decorin core protein is visualized at 43 kDa after digestion (lane b), with a clear, single band found from NCD NP extracts. NP extracts from CD canines (lane d) reveal fragmentation of decorin with multiple lower MW bands visualized at 30, 25-20, and 17-15 kDa. Image collected and cropped by CiteAb from the following publication (<https://arthritis-research.com/content/17/1/240>) licensed under a CC-BY license.



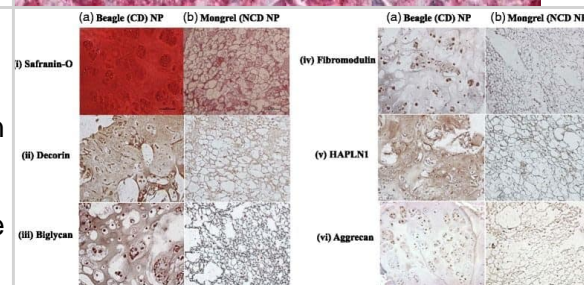
Immunocytochemistry/Immunofluorescence: Decorin Antibody [NBP1-57923] - Human periodontal ligament cells stained with rabbit anti-decorin 1:300 and goat anti-rabbit Alexa 488 1:500. Nuclei stained with DAPI. ICC/IF image submitted by a verified customer review.



Immunohistochemistry-Paraffin: Decorin Antibody [NBP1-57923] - Human skin tissue at an antibody concentration of 4-8 ug/mL.



Immunohistochemistry: Decorin Antibody [NBP1-57923] - Comparative immunohistochemical analysis of non-chondrodystrophic (NCD) & chondrodystrophic (CD) canine nucleus pulposus (NP) expression & distribution of decorin, biglycan, fibromodulin, hyaluronan & proteoglycan link protein 1 (HAPLN1), & aggrecan. For all extracellular matrix (ECM) proteins, the NCD canine intervertebral disc NP reveals a cobweb appearance, demonstrating intense staining for all proteins located in the areas tightly between the cells. Immunostaining with decorin reveals diffuse intercellular staining with negative immunostaining within the large, physaliferous-appearing notochordal cells. This presentation is in contrast to the abundant staining of these proteins in every CD NP sample. Decorin, biglycan, & HAPLN1 reveal intense staining within the ECM, with abundant clusters of small numbers of cells present within the NP. Although the ECM staining is less intense than that for the other three proteins, fibromodulin & aggrecan immunostaining is present. Furthermore, the CD NP stained for aggrecan reveals intense pericellular immunostaining diffusely throughout the ECM that is much less cellular than the NCD NP staining. Safranin-O staining shows quite intense ECM staining in the CD NP, whereas the NCD sample demonstrates intense intercellular staining without large, acellular ECM areas rich in proteoglycan staining. The overall appearance of the CD NP bears a strong resemblance to a fibrocartilaginous phenotype that is distinctly different from the NCD canine NP Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26341258>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Erwin WM, DeSouza L, Funabashi M et al. The biological basis of degenerative disc disease: proteomic and biomechanical analysis of the canine intervertebral disc. *Arthritis Res. Ther.* 2015-09-05 [PMID: 26341258] (WB, Canine)



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Products Related to NBP1-57923

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-84970PEP	Decorin Recombinant Protein Antigen

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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