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# 36-2159: Anti-Decorin Monoclonal Antibody(Clone: DCN/3523)

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|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | DCN/3523 |
| **Application :** | IHC |
| **Reactivity :** | Human |
| **Gene :** | DCN |
| **Gene ID :** | 1634 |
| **Uniprot ID :** | P07585 |
| **Alternative Name :** | Bone proteoglycan II; CSCD; Dermatan sulphate proteoglycans II (DSPG2); PG40; PGII; PGS2; Proteoglycan core protein; SLRR1B; Small leucine rich protein 1B |
| **Isotype :** | Mouse IgG2b, kappa |
| **Immunogen Information :** | Recombinant human Decorin protein fragment (aa212-336) (exact sequence is proprietary) |

## Description

Decorin is a small leucine-rich proteoglycan (SLRP) family member that consists of a glycosaminoglycan chain-containing core protein. The core protein contains ten leucine rich repeats that contain sites for glycosylation, flanked by disulfide bond stabilizing loops. Decorin binds to Collagen Type I, II and IV in vivo and promotes the formation of fibers with variations in stability and solubility. The Decorin core protein binds to growth factors, intercellular matrix molecules, such as Fibronectin and Thrombospondin, and to the Decorin endocytosis receptor. Decorin binds to and inhibits TGF and is a direct or indirect negative modulator of TGF synthesis. Inhibition of Decorin core protein gene expression by the combination of IFN- and TNF may contribute to cartilage destruction that is characteristic of inflammatory joint diseases. The human Decorin gene maps to chromosome 12q21.33 and encodes a 359 amino acid protein.

## Product Info

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| **Amount :** | 20 µg / 100 µg |
| **Content :** | 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| **Storage condition :** | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. |

## Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes),

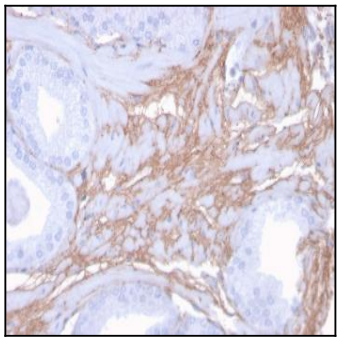

Fig. 1: Formalin-fixed, paraffin-embedded human Prostate stained with Decorin Mouse Monoclonal Antibody (DCN/3523).

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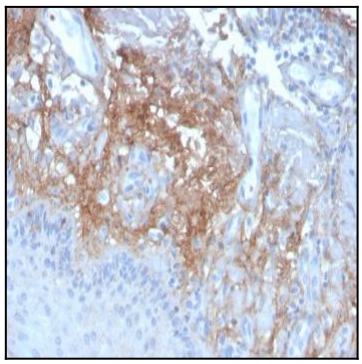

Fig. 2: Formalin-fixed, paraffin-embedded human Skin stained with Decorin Mouse Monoclonal Antibody (DCN/3523).

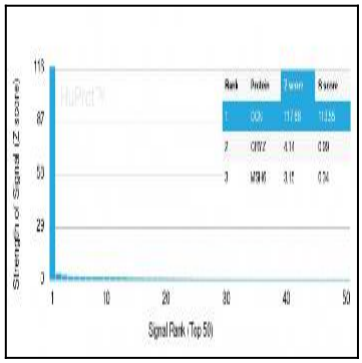


Fig. 3: Analysis of Protein Array containing more than 19,000 full-length human proteins using Monospecific Mouse Monoclonal Antibody to Decorin (DCN/3523). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.