

## Decorin Antibody

Mouse Monoclonal Antibody [Clone DCN/3523]

Catalog No	Format	Size
1634-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1634-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1634-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

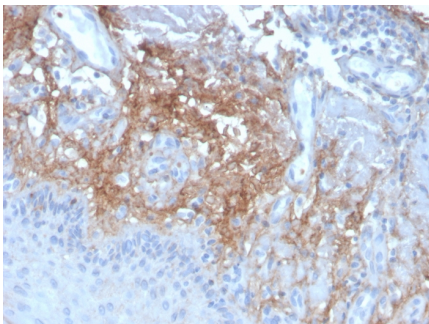
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

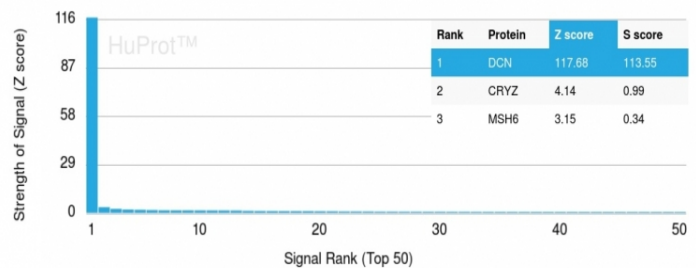
<b>Clone</b>	DCN/3523
<b>Gene Name</b>	DCN
<b>Immunogen</b>	Recombinant human Decorin protein fragment (aa212-336) (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	43kDa
<b>Cellular Localization</b>	Extracellular matrix, Extracellular space, Secreted
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Human prostate or skin tissue (IHC).

\*Optimal dilution for a specific application should be determined.

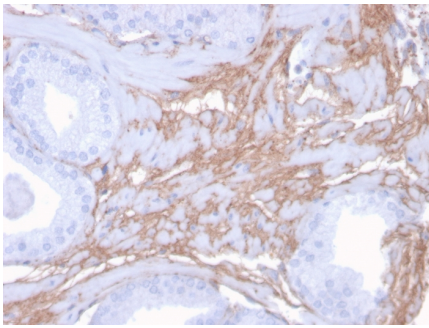
### Product Images for Decorin Antibody



Formalin-fixed, paraffin-embedded human skin stained with Decorin Mouse Monoclonal Antibody (DCN/3523).



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 (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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 HuProt™ 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 MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb 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 MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human prostate stained with Decorin Mouse Monoclonal Antibody (DCN/3523).

### Specificity & Comments

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 $\beta$  and is a direct or indirect negative modulator of TGF $\beta$  synthesis. Inhibition of Decorin core protein gene expression by the combination of IFN- $\gamma$  and TNF $\alpha$  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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/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 and Stability

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. No MSDS required.

### Research Areas

Cardiovascular, Articular Cartilage Extracellular Matrix, Complement System, Infectious Disease, Mesenchymal Stem Cell Differentiation