**BACKGROUND**

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 TGFβ and is a direct or indirect negative modulator of TGFβ synthesis. Inhibition of Decorin core protein gene expression by the combination of IFN-γ and TNFα 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.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: DCN (human) mapping to 12q21.33.

**SOURCE**

Decorin (9XX) is a mouse monoclonal antibody raised against amino acids 17-172 of Decorin of human origin.

**PRODUCT**

Each vial contains 100 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

**APPLICATIONS**

Decorin (9XX) is recommended for detection of Decorin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:10000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Decorin siRNA (h): sc-40993, Decorin shRNA Plasmid (h): sc-40993-SH and Decorin shRNA (h) Lentiviral Particles: sc-40993-V.

Molecular Weight of Decorin: 43 kDa.

Positive Controls: Decorin (h2): 293T Lysate: sc-170640.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

![Decorin Western blot analysis](image1)

![Decorin Western blot analysis](image2)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.