

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Mouse                                                                                                                                                     |
| <b>Specificity</b>                                                                                                                                                                                      | Detects mouse Decorin in ELISAs and Western blots. In sandwich immunoassays, less than 0.05% cross-reactivity with recombinant human Decorin is observed. |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Goat IgG                                                                                                                                       |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                                                                                 |
| <b>Immunogen</b>                                                                                                                                                                                        | Mouse myeloma cell line NS0-derived recombinant mouse Decorin<br>Gly17-Lys354<br>Accession # P28654                                                       |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm                                                                           |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                                                                              |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                                                                                           |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|                                                |                                                                        |
|------------------------------------------------|------------------------------------------------------------------------|
| <b>ELISA Capture (Matched Antibody Pair)</b>   | Optimal dilution of this antibody should be experimentally determined. |
| <b>ELISA Detection (Matched Antibody Pair)</b> | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>                            | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b>                    | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

Decorin is a small secreted chondroitin/dermatan sulfate proteoglycan belonging to the class I small leucine-rich proteoglycan family (SLRP). All SLRP family members are characterized by the N-terminal and C-terminal cysteine-rich regions, which flank the central region containing 10-12 tandem leucine-rich repeats. In mouse Decorin, the glycosaminoglycan chain is O-linked to Ser34 in the N-terminal disulfide-bridged loop. Decorin binds to fibronectin, TGF-β, type I and type II collagen. The binding of Decorin to these molecules is mediated via the core protein. Decorin plays a role in maintaining collagen fibrillogenesis. Depending on the cell context, Decorin can either block or augment the bioactivity of TGF-β. Decorin induces growth suppression by activation of a signaling pathway that culminates in the blockade of the cell cycle machinery. Decorin can also induce fibroblast cytoskeletal and signalling changes that results in an increased cell migration (1, 2).

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