

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Decorin in direct ELISAs and Western blots. In Western blots, this antibody does not cross-react with recombinant human Decorin.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 161026
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse Decorin Gly17-Lys354 Accession # P28654
<b>Conjugate</b>	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** 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).

## PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.