

Mouse Decorin Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1060

| Species Reactivity | Mouse | | |
|--|---|---|---|
| Specificity | Detects mouse Decorin in ELISAs and Western blots. In sandwich immunoassays, less than 0.05% cross-reactivity with recombinant human Decorin is observed. | | |
| Source | Polyclonal Goat IgG | | |
| Purification | Antigen Affinity-purified | | |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant mouse Decorin Gly17-Lys354 Accession # P28654 | | |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. | | |
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| APPLICATIONS | | | |
| | ions should be determined by eac | h laboratory for each applica | ation. General Protocols are available in the Technical Information section on our website. |
| | ions should be determined by each | h laboratory for each applica Recommended Concentration | ation. General Protocols are available in the Technical Information section on our website. Sample |
| Please Note: Optimal dilut | ions should be determined by each | Recommended | |
| Please Note: Optimal dilut Western Blot | | Recommended Concentration | Sample |
| Please Note: Optimal dilut Western Blot Immunohistochemis | | Recommended Concentration 0.1 µg/mL | Sample Recombinant Mouse Decorin (Catalog # 1060-DE) |
| Please Note: Optimal dilut Western Blot Immunohistochemis Mouse Decorin Sand | itry | Recommended Concentration 0.1 µg/mL | Sample Recombinant Mouse Decorin (Catalog # 1060-DE) Immersion fixed frozen sections of mouse embryo (13 d.p.c., dorsal root ganglion) |
| Please Note: Optimal dilut Western Blot Immunohistochemis | itry | Recommended Concentration 0.1 μg/mL 5-15 μg/mL | Sample Recombinant Mouse Decorin (Catalog # 1060-DE) Immersion fixed frozen sections of mouse embryo (13 d.p.c., dorsal root ganglion) Reagent |

PREPARATION AND STORAGE

| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. | | |
|---------------------|---|--|--|
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. | | |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. | | |
| | 12 months from date of receipt, -20 to -70 °C as supplied. | | |

- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

DESCRIPTION

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).

References:

- lozzo, R.V. (1998) Annu. Rev. Biochem. 67:609.
- 2. Tufvesson, E. and G. Westergren-Thorsson (2003) J. Cell Science 116:4857.

