

## Product datasheet for **DM3538P**

### Dcn Rat Monoclonal Antibody [Clone ID: 9A38]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	9A38
Applications:	WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2
Clonality:	Monoclonal
Immunogen:	Purified Mouse Recombinant Decorin
Specificity:	This antibody detects Mouse Decorin in Western blotting.
Formulation:	0.2 µm filtered PBS solution State: Purified State: Lyophilized purified IgG fraction from Culture Supernatant
Reconstitution Method:	Restore with 0.2 ml sterile PBS and the final concentration is 0.5 mg/ml.
Purification:	Protein A/G affinity chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	decorin
Database Link:	<a href="#">Entrez Gene 13179 Mouse P28654</a>



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**Background:**

Secreted chondroitin/dermatan sulfate proteoglycan belonging to the class I small leucine-rich proteoglycan family (SLRP). All SLRP family members are characterized by the Nterminal and C terminal cysteine rich regions, which flank the central region containing 1012 tandem leucinerich repeats. In mouse Decorin, the glycosaminoglycan chain is Olinked to Ser34 in the Nterminal disulfide bridged loop. Decorin binds to fibronectin, TGF $\beta$ , 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 $\beta$ . 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).

**Synonyms:**

DCN, SLRR1B, Bone proteoglycan II, PG-S2, PG40