

## Anti-Decorin/DCN Antibody Picoband® Cy3 Conjugated

Catalog Number: PB9174-Cy3

### About DCN

Decorin is a protein that in humans is encoded by the DCN gene. This gene is mapped to 12q21.3. It belongs to the small leucine-rich proteoglycan (SLRP) family and consists of a protein core containing leucine repeats with a glycosaminoglycan (GAG) chain consisting of either chondroitin sulfate (CS) or dermatan sulfate (DS). Decorin is a small cellular or pericellular matrix proteoglycan and is closely related in structure to biglycan protein. This protein is a component of connective tissue, binds to type I collagen fibrils, and plays a role in matrix assembly. And it also may play a role in epithelial/mesenchymal interactions during organ development and shaping. Decorin has been shown to have anti-tumorigenic properties in an experimental murine tumor model and is capable of suppressing the growth of various tumor cell lines.

### Overview

Product Name	Anti-Decorin/DCN Antibody Picoband® Cy3 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P07585

### Technical Details

Immunogen	E.coli-derived human Decorin recombinant protein (Position: D31-K359). Human Decorin shares 80% and 77% amino acid (aa) sequences identity with mouse and rat Decorin, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Cy3 Excitation Wavelength: 554 nm Emission Wavelength: 568 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

### 3 Publications Citing This Product

1. PubMed ID: 27713567, An Animal Model of Modic Changes by Embedding Autogenous Nucleus Pulposus inside Subchondral Bone of Lumbar Vertebrae
2. PubMed ID: 24987434, Huang Gf, Zou J, Shi J, Zhang Dy, Pen Hf, Zhang Q, Gao Y, Wang By. Evid Based Complement Alternat Med. 2014;2014:731395. Doi: 10.1155/2014/731395. Epub 2014 May 27. The Effect Of Electroacupuncture On The Extracellular Matrix Synthesis And Degrada...
3. PubMed ID: 28290552, Lai J, Chen F, Chen J, Ruan G, He M, Chen C, Tang J, Wang DW. Sci Rep. 2017 Mar 14;7:44473. doi: 10.1038/srep44473. Overexpression of decorin promoted angiogenesis in diabetic cardiomyopathy via IGF1R-AKT-VEGF signaling

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