10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-Decorin Picoband Antibody

Catalog # ABO11867

Specification

Anti-Decorin Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P07585
Host	**Rabbit**
Reactivity	**Human, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Decorin(DCN) detection. Tested with WB, IHC-P in Human;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Decorin Picoband Antibody - Additional Information

Gene ID 1634

Other Names
Decorin, Bone proteoglycan II, PG-S2, PG40, DCN, SLRR1B

Calculated MW
39747 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization
Secreted, extracellular space, extracellular matrix.

Protein Name
Decorin

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Sequence Similarities
Belongs to the small leucine-rich proteoglycan (SLRP) family. SLRP class I subfamily.

Anti-Decorin Picoband Antibody - Protein Information

Name DCN

Synonyms SLRR1B

Function
May affect the rate of fibrils formation.

Cellular Location
Secreted, extracellular space, extracellular matrix. Secreted

Tissue Location
Detected in placenta (at protein level) (PubMed:32337544). Detected in cerebrospinal fluid, fibroblasts and urine (at protein level) (PubMed:25326458, PubMed:36213313, PubMed:37453717).

Anti-Decorin Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Decorin Picoband Antibody - Images

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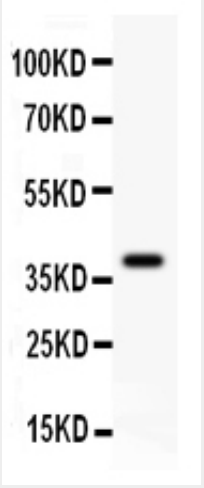
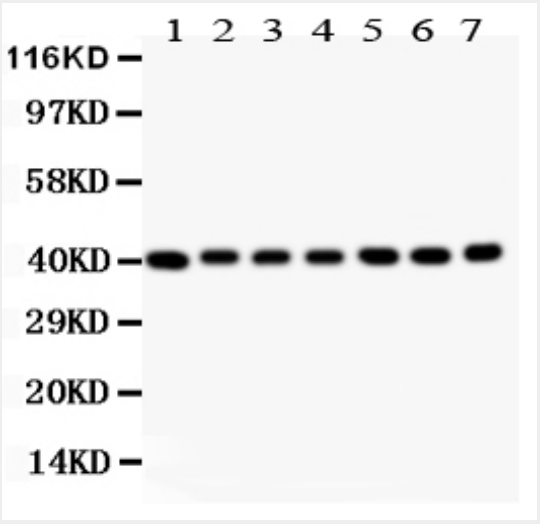


Anti- Decorin Picoband antibody, ABO11867, Western blottingAll lanes: Anti Decorin (ABO11867) at 0.5ug/mlWB: Recombinant Human Decorin Protein 0.5ngPredicted bind size: 38KDObserved bind size: 38KD



Anti- Decorin Picoband antibody, ABO11867, Western blottingAll lanes: Anti Decorin (ABO11867) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Rat Kidney Tissue Lysate at 50ugLane 3: Rat Spleen Tissue Lysate at 50ugLane 4: Rat Lung Tissue Lysate at 50ugLane 5: MCF-7 Whole Cell Lysate at 40ugLane 6: SW620 Whole Cell Lysate at 40ugLane 7: Hepg2 Whole Cell Lysate at 40ugPredicted bind size: 40KDObserved bind size: 40KD

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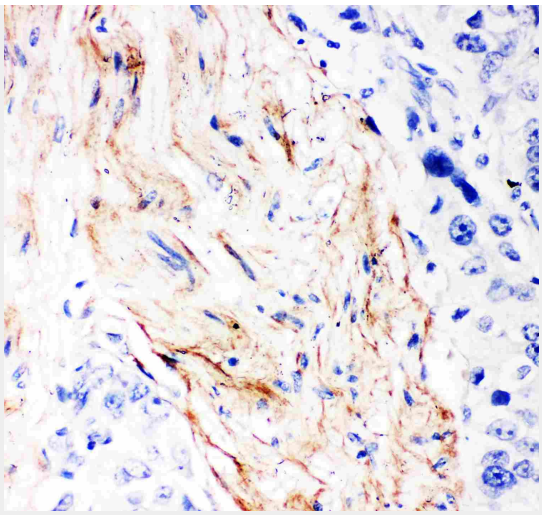

Anti- Decorin Picoband antibody, ABO11867, IHC(P)IHC(P): Human Mammary Cancer Tissue

Anti-Decorin Picoband Antibody - Background

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.