

Datasheet for ABIN3043487
anti-Decorin antibody (AA 31-359)[Go to Product page](#)

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Overview

Quantity:	100 µg
Target:	Decorin (DCN)
Binding Specificity:	AA 31-359
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Decorin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Decorin(DCN) detection. Tested with WB, IHC-P in Human,Rat.
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Decorin(DCN) detection. Tested with WB, IHC-P in Human,Rat. Gene Name: decorin Protein Name: Decorin
Purification:	Immunogen affinity purified.

Target Details

Target:	Decorin (DCN)
Alternative Name:	DCN (DCN Products)
Background:	<p>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.</p> <p>Synonyms: Bone proteoglycan II antibody CSCD antibody DCN antibody DCN protein antibody Decorin antibody Decorin proteoglycan antibody Dermatan sulphate proteoglycans II antibody DKFZp686J19238 antibody DSPG 2 antibody DSPG2 antibody PG 40 antibody PG II antibody PG S2 antibody PG-S2 antibody PG40 antibody PGII antibody PGS 2 antibody PGS2 antibody PGS2_HUMAN antibody Proteoglycan core protein antibody SLRR1B antibody Small leucine rich protein 1B antibody</p>
Gene ID:	1634
UniProt:	P07585
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for Decorin is approximately 0.5 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, 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.

Publications

Product cited in: Yang, Gao, Wu, Yu, Li, Meng, Li, Yan, Jin: "Epigallocatechin-3-gallate attenuates neointimal hyperplasia in a rat model of carotid artery injury by inhibition of high mobility group box 1 expression." in: **Experimental and therapeutic medicine**, Vol. 14, Issue 3, pp. 1975-1982, (2017) ([PubMed](#)).

Yu, Yu, Liu, Yu, Liu, Liu, Su, Jiang, Chen: "Ethyl pyruvate attenuated coxsackievirus B3-induced acute viral myocarditis by suppression of HMGB1/RAGE/NF-KB pathway." in: **SpringerPlus**, Vol. 5, pp. 215, (2016) ([PubMed](#)).

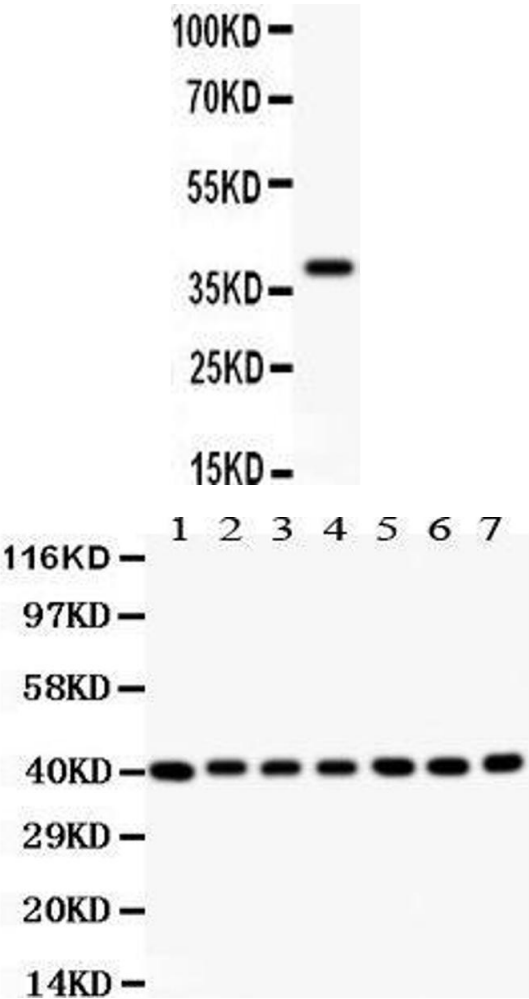
Qin, Niu, Wang, Xu, Qiao, Gu: "Heparanase induced by advanced glycation end products (AGEs) promotes macrophage migration involving RAGE and PI3K/AKT pathway." in: **Cardiovascular diabetology**, Vol. 12, pp. 37, (2013) ([PubMed](#)).

Liu, Wang, Feng, Ma, Fu, Song, Jia, Ma: "Hypoglycemic and antioxidant activities of paeonol and its beneficial effect on diabetic encephalopathy in streptozotocin-induced diabetic rats." in:

Journal of medicinal food, Vol. 16, Issue 7, pp. 577-86, (2013) ([PubMed](#)).

Wang, Zhang, Liu, Cui, Yang, Li, Du: "Tanshinone II A down-regulates HMGB1, RAGE, TLR4, NF-kappaB expression, ameliorates BBB permeability and endothelial cell function, and protects rat brains against focal ischemia." in: **Brain research**, Vol. 1321, pp. 143-51, (2010) ([PubMed](#)).

Validation report #300030 for Immunohistochemistry (IHC)

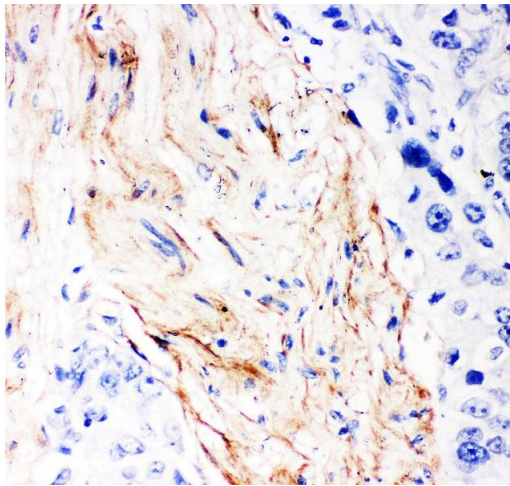


Western Blotting

Image 1. All lanes: Anti Decorin at 0.5ug/ml WB: Recombinant Human Decorin Protein 0.5ng Predicted bind size: 38KD Observed bind size: 38KD

Western Blotting

Image 2. Anti- Decorin Picoband antibody, Western blotting All lanes: Anti Decorin at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Rat Kidney Tissue Lysate at 50ug Lane 3: Rat Spleen Tissue Lysate at 50ug Lane 4: Rat Lung Tissue Lysate at 50ug Lane 5: MCF-7 Whole Cell Lysate at 40ug Lane 6: SW620 Whole Cell Lysate at 40ug Lane 7: Hepg2 Whole Cell Lysate at 40ug Predicted bind size: 40KD Observed bind size: 40KD



Immunohistochemistry

Image 3. Anti- Decorin Picoband antibody, IHC(P) IHC(P):
Human Mammary Cancer Tissue

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3043487.