

For Research Use Only

# Decorin Polyclonal antibody

Catalog Number: 14667-1-AP

Featured Product

23 Publications



## Basic Information

<b>Catalog Number:</b> 14667-1-AP	<b>GenBank Accession Number:</b> BC005322	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 400 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1634	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:1000-1:4000 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P07585	
<b>Isotype:</b> IgG	<b>Full Name:</b> decorin	
<b>Immunogen Catalog Number:</b> AG6328	<b>Calculated MW:</b> 359 aa, 40 kDa	
	<b>Observed MW:</b> 70 kDa, 45-48 kDa	

## Applications

### Tested Applications:

WB, IF, IHC, ELISA

### Cited Applications:

WB, IF, IHC

### Species Specificity:

human, mouse, rat, zebrafish

### Cited Species:

human, rat, mouse, hamster

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : mouse heart tissue, MCF-7 cells, BxPC-3 cells, mouse colon tissue, rat heart tissue, NIH/3T3 cells

**IHC** : human skin cancer tissue, human breast cancer tissue, human breast hyperplasia tissue, human colon cancer tissue

**IF** : zebrafish retina, BxPC-3 cells, mouse liver tissue

## Background Information

Decorin is a member of the small leucine-rich proteoglycan family of proteins. Decorin interacts with type I collagen fibrils, thereby influencing the kinetics of fibril formation and the distance between adjacent collagen fibrils. The binding of this protein to multiple cell surface receptors mediates its role in tumor suppression, including a stimulatory effect on autophagy and inflammation and an inhibitory effect on angiogenesis and tumorigenesis. Decorin (~ 40 kDa) also binds glycosaminoglycan chains to form big molecules.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shun-Yuan Li	31545482	Int J Mol Med	WB
Zunzhe Wang	34514716	J Cell Mol Med	IHC
Mengying Wang	31478096	Glycoconj J	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

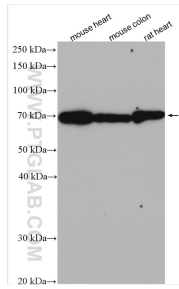
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

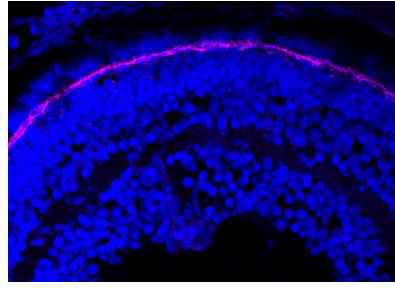
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

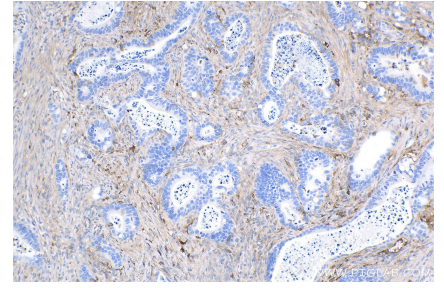
## Selected Validation Data



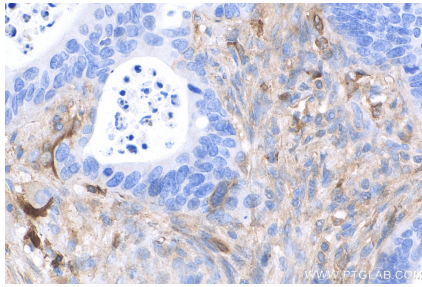
Various lysates were subjected to SDS PAGE followed by western blot with 14667-1-AP (Decorin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



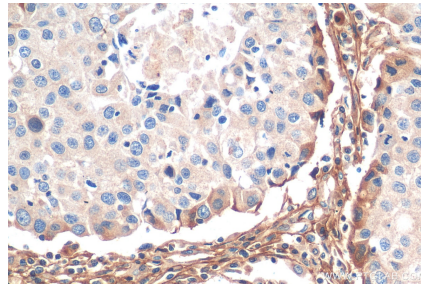
Immunofluorescence analysis of Decorin polyclonal antibody (14667-1-AP, magenta) staining on tissue sections of the zebrafish retina at 4 days post fertilisation (dpf). Dilution 1:200. Tissue fixed overnight in 4% PFA. DAPI, blue. Data generated by Natalia Jaroszynska in Professor Ryan MacDonald's lab, University College London, UK



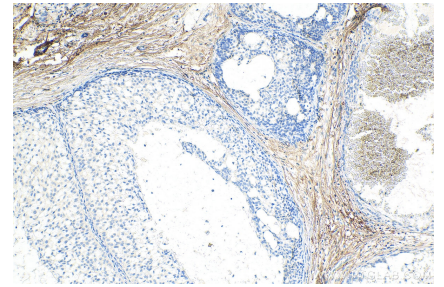
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14667-1-AP (Decorin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



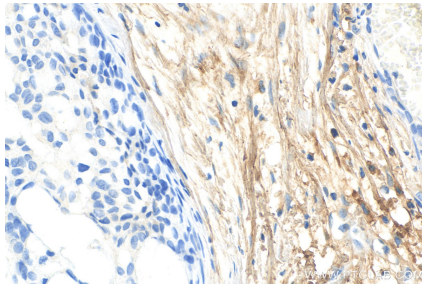
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14667-1-AP (Decorin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



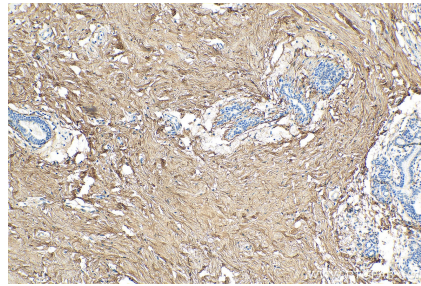
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14667-1-AP (Decorin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



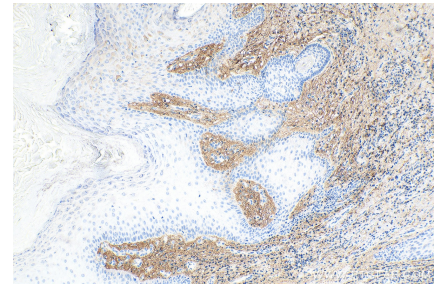
Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 14667-1-AP (Decorin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



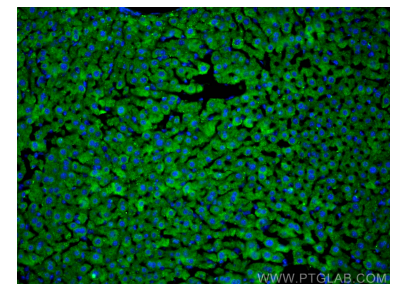
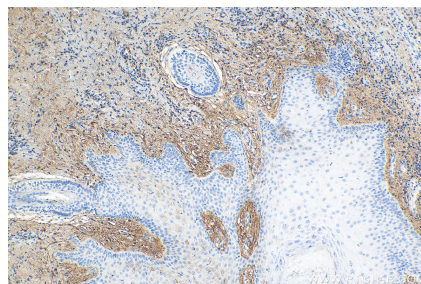
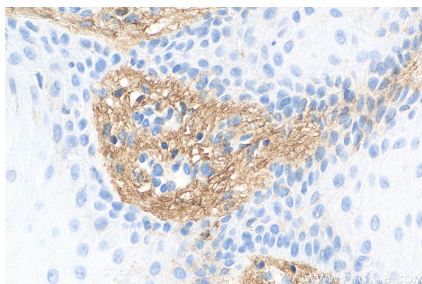
Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 14667-1-AP (Decorin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



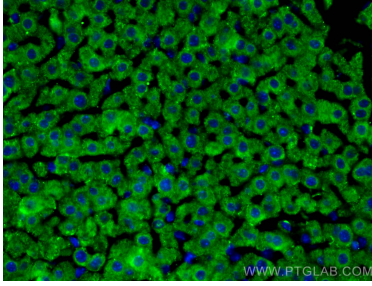
Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 14667-1-AP (Decorin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 14667-1-AP (Decorin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 14667-1-AP (Decorin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using Decorin antibody (14667-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 14667-1-AP (Decorin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using Decorin antibody (14667-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).