

For Research Use Only

# Biglycan Polyclonal antibody

Catalog Number: 16409-1-AP

11 Publications



## Basic Information

<b>Catalog Number:</b> 16409-1-AP	<b>GenBank Accession Number:</b> BC004244	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop and 220 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 633	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200 IF 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> biglycan	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 42 kDa	
<b>Immunogen Catalog Number:</b> AG0683	<b>Observed MW:</b> 40-48 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human, mouse, rat, pig

### Cited Species:

human, mouse, rat

**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:** COLO 320 cells, mouse skeletal muscle tissue, HeLa cells, HepG2 cells, pig cartilage tissue

**IHC:** human lung tissue, human liver cancer tissue, human renal cell carcinoma tissue, human stomach cancer tissue, mouse lung tissue

**IF:** HepG2 cells,

## Background Information

Biglycan is a member of the small leucine-rich proteoglycan (SLRP) family (PMID: 18463092). It consists of a core protein of 42 kDa containing leucine-rich repeats (LRs), to which two chondroitin/dermatan sulfate side chains are covalently bound (PMID: 2212616; 10383378). The tissue-specific chondroitin- or dermatan-sulfate glycosaminoglycan chains of biglycan are attached to amino acid residues at the N-terminus of the core protein (PMID: 22821552). Biglycan is a ubiquitous component of connective tissue matrix and may act as a signaling molecule (PMID: 22821552). Upregulation of biglycan has been reported in multiple types of solid cancer (PMID: 32194659).

## Notable Publications

Author	Pubmed ID	Journal	Application
Mengying Wang	31478096	Glycoconj J	WB
Yueyan Li	32969194	Proteomics Clin Appl	WB
Fan Lai	34781961	BMC Musculoskelet Disord	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

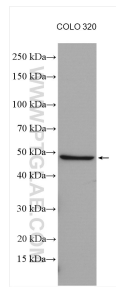
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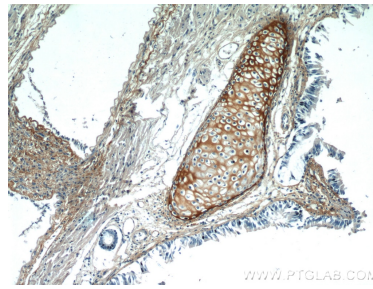
E: proteintech@ptglab.com  
W: ptglab.com

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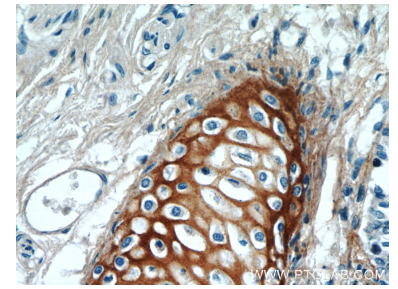
## Selected Validation Data



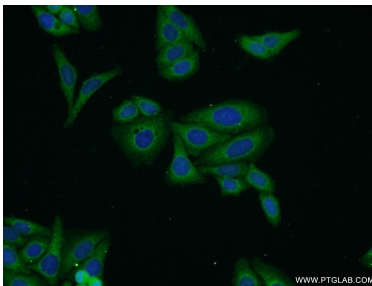
COLO 320 cells were subjected to SDS PAGE followed by western blot with 16409-1-AP (Biglycan antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung using 16409-1-AP (BGN antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human lung using 16409-1-AP (BGN antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells using 16409-1-AP (Biglycan antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).