

For Research Use Only

# Collagen Type XI Polyclonal antibody



Catalog Number: 21841-1-AP

3 Publications

## Basic Information

<b>Catalog Number:</b> 21841-1-AP	<b>GenBank Accession Number:</b> BC117697	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 800 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1301	<b>Recommended Dilutions:</b> IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P12107	
<b>Isotype:</b> IgG	<b>Full Name:</b> collagen, type XI, alpha 1	
<b>Immunogen Catalog Number:</b> AG16509	<b>Calculated MW:</b> 1818 aa, 182 kDa	

## Applications

<b>Tested Applications:</b> IHC, ELISA	<b>Positive Controls:</b> IHC : human placenta tissue,
<b>Cited Applications:</b> IF, IHC	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	

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

## Background Information

COL11A1 is an important component of collagen XI and is considered to play an important role in a variety of connective tissue diseases. Type XI collagen is widely distributed in tissues including cartilage, bone, and muscle, and its hereditary absence in Marshall's syndrome, Stickler's syndrome, fibrochondrogenesis, and nonsyndromic hearing loss deafness, autosomal dominant 37 leads to facial and eye abnormalities, hearing loss, and joint problems. The COL11A1 expression was significantly correlated with the degree of immune infiltration and the expression of a variety of immune cell markers in tumor tissue. (PMID: 36160004 33610546)

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenjie Shi	36389832	Front Immunol	IHC
Nanxin Zheng	36371957	Transl Oncol	IF
Yusuke Inoue	38440852	J Orthop Res	IHC

## Storage

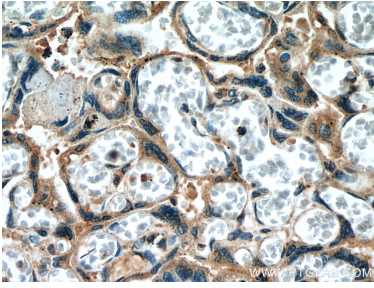
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

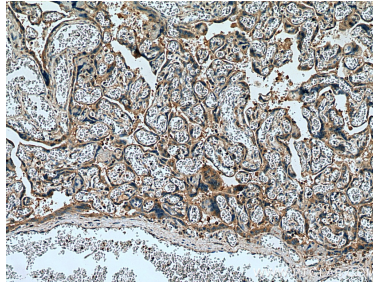
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 21841-1-AP (Collagen Type XI antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 21841-1-AP (Collagen Type XI antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).