

Collagen Type XXVII Polyclonal antibody

Catalog Number: 15673-1-AP

Basic Information

Catalog Number: 15673-1-AP	GenBank Accession Number: BC007696	Purification Method: Antigen affinity purification
Concentration: 550 µg/ml	GeneID (NCBI): 85301	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q8IZC6	
Isotype: IgG	Full Name: collagen, type XXVII, alpha 1	
Immunogen Catalog Number: AG8140	Calculated MW: 1860 aa, 87 kDa Observed MW: 68-73 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : HeLa cells, HepG2 cells, mouse brain tissue, mouse heart tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human placenta tissue,

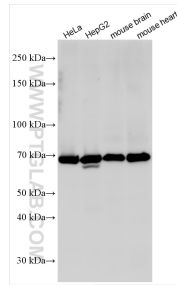
Background Information

Collagen Type XXVII, also named COL27A1, it is a member of the collagen fibrillar gene family. It is located in the extracellular matrix. The calculated molecular weight of COL27A1 is 186 kDa. This antibody can recognize the 73 kDa isoform of target. The high level of Col27a1 expression in mouse cartilage suggested the possibility that Col27a1 may be regulated in cartilage by SOX9, as are Col2a1, Col11a2, Col9a1, and Col9a2 (PMID: 15922909). Expression analyses of the mouse col27a1 gene demonstrated high expression in cartilage, the eye and ear, but also in lung and colon. It is likely that the major protein product of COL27A1, proa1(XXVII), is a component of the extracellular matrices of cartilage and these other tissues. Study of this collagen should yield insights into normal chondrogenesis, and provide clues to the pathogenesis of some chondrodysplasias and disorders of other tissues in which this gene is expressed (PMID: 12714037).

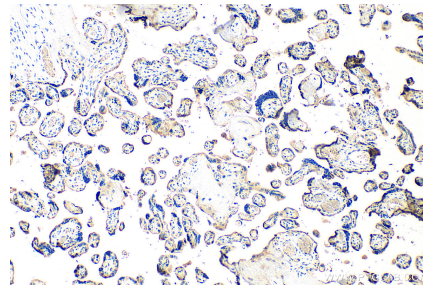
Storage

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15673-1-AP (Collagen Type XXVII antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 15673-1-AP (Collagen Type XXVII antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).