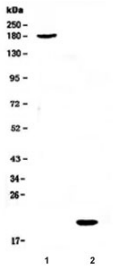
COL18A1 Antibody (RQ4192)

Catalog No.	Formulation	Size
RQ4192	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P39060
Applications	Western Blot : 0.5-1ug/ml
Limitations	This COL18A1 antibody is available for research use only.



Western blot testing of 1) human COLO320 and 2) human placenta lysate with COL18A1 antibody at 0.5ug/ml. Predicted molecular weight: ~178 (NC1-728), ~154 kDa (Long, NC-493), ~136 kDa (Short, NC1-303), ~20 kDa (Endostatin).

Description

Collagen alpha-1 (XVIII) chain is a protein that in humans is encoded by the COL18A1 gene. This gene encodes the alpha chain of type XVIII collagen. This collagen is one of the multiplexins, extracellular matrix proteins that contain multiple triple-helix domains (collagenous domains) interrupted by non-collagenous domains. A long isoform of the protein has an N-terminal domain that is homologous to the extracellular part of frizzled receptors. Proteolytic processing at several endogenous cleavage sites in the C-terminal domain results in production of endostatin, a potent antiangiogenic protein that is able to inhibit angiogenesis and tumor growth. Mutations in this gene are associated with Knobloch syndrome. The main features of this syndrome involve retinal abnormalities, so type XVIII collagen may play an important

role in retinal structure and in neural tube closure. Alternative splicing results in multiple transcript variants.

Application Notes

Optimal dilution of the COL18A1 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids H1572-K1754 was used as the immunogen for the COL18A1 antibody.

Storage

After reconstitution, the COL18A1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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