

## COL18A1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP8852a

## **Specification**

## COL18A1 Antibody (N-term) - Product Information

Application FC, WB,E Primary Accession P39060

Reactivity Human, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 178188
Antigen Region 237-263

## COL18A1 Antibody (N-term) - Additional Information

#### **Gene ID 80781**

#### **Other Names**

Collagen alpha-1(XVIII) chain, Endostatin, COL18A1

# **Target/Specificity**

This COL18A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 237-263 amino acids from the N-terminal region of human COL18A1.

#### **Dilution**

FC~~1:10~50 WB~~1:1000

E~~Use at an assay dependent concentration.

### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

## **Precautions**

COL18A1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## COL18A1 Antibody (N-term) - Protein Information

# Name COL18A1 (HGNC:2195)

Function Probably plays a major role in determining the retinal structure as well as in the closure



of the neural tube.

#### **Cellular Location**

Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, extracellular matrix, basement membrane {ECO:0000250|UniProtKB:P39061} [Endostatin]: Secreted. Secreted, extracellular space, extracellular matrix, basement membrane

#### **Tissue Location**

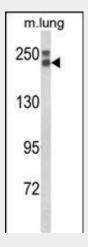
Detected in placenta (at protein level) (PubMed:32337544). Present in multiple organs with highest levels in liver, lung and kidney.

# COL18A1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

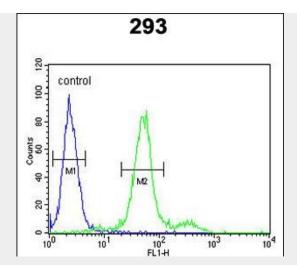
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# COL18A1 Antibody (N-term) - Images



Western blot analysis of COL18A1 Antibody (N-term) (Cat. #AP8852a) in mouse lung tissue lysates (35ug/lane). COL18A1 (arrow) was detected using the purified Pab.





COL18A1 Antibody (N-term) (Cat. #AP8852a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

# COL18A1 Antibody (N-term) - Background

COL18A1 is encoding 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. The proteolytically produced C-terminal fragment of type XVIII collagen is endostatin, a potent antiangiogenic protein.

# COL18A1 Antibody (N-term) - References

Fu, Y., et.al., Biochemistry 48 (49), 11655-11663 (2009)