

**Anti-Collagen IV Picoband Antibody**  
Catalog # ABO11806**Specification**

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**Anti-Collagen IV Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P02461</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Collagen alpha-1(IV) chain(COL4A1) detection. Tested with WB, IHC-P in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Collagen IV Picoband Antibody - Additional Information**

**Gene ID** 1281

**Other Names**

Collagen alpha-1(III) chain, COL3A1

**Calculated MW**

138564 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br><br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Secreted, extracellular space, extracellular matrix .

**Tissue Specificity**

Highly expressed in placenta.

**Protein Name**

Collagen alpha-1(IV) chain

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E.coli-derived human Collagen IV recombinant protein (Position: G1445-T1669). Human Collagen IV shares 97% amino acid (aa) sequence identity with mouse Collagen IV.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

Storage

**At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the type IV collagen family.

**Anti-Collagen IV Picoband Antibody - Protein Information**

**Name** COL3A1

**Function**

Collagen type III occurs in most soft connective tissues along with type I collagen. Involved in regulation of cortical development. Is the major ligand of ADGRG1 in the developing brain and binding to ADGRG1 inhibits neuronal migration and activates the RhoA pathway by coupling ADGRG1 to GNA13 and possibly GNA12.

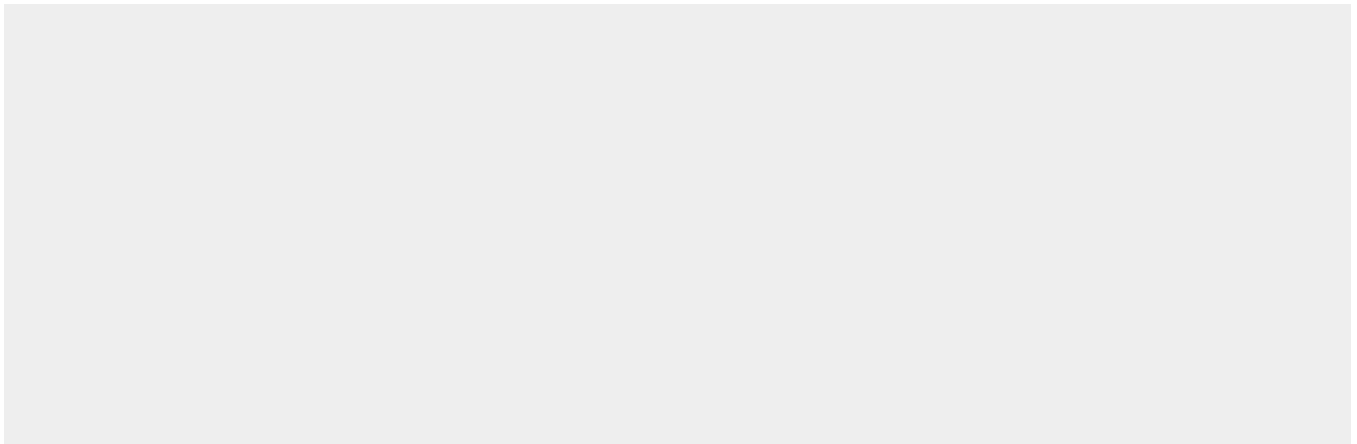
**Cellular Location**

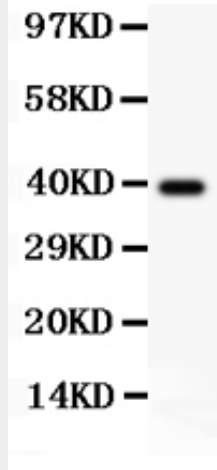
Secreted, extracellular space, extracellular matrix {ECO:0000255|PROSITE-ProRule:PRU00793}

**Anti-Collagen IV Picoband Antibody - Protocols**

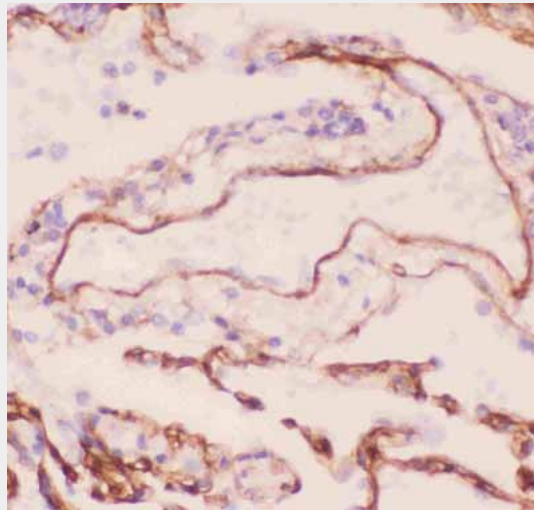
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Collagen IV Picoband Antibody - Images**



Anti-Collagen IV Picoband antibody, ABO11806-1.jpg All lanes: Anti Collagen IV (ABO11806) at 0.5ug/ml WB: Recombinant Human Collagen IV Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD



Anti-Collagen IV Picoband antibody, ABO11806-2.JPG IHC(P): Human Lung Cancer Tissue

### **Anti-Collagen IV Picoband Antibody - Background**

COL4A1, also known as ICH or Collagen alpha-1(IV), is a protein that in humans is encoded by the COL4A1 gene. It is mapped to 13q34. This gene encodes the major type IV alpha collagen chain of basement membranes. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter. COL4A1 binds to alpha-1/beta-1 integrin and inhibits migration, proliferation, and tube formation by endothelial cells. It is also a potential therapeutic candidate for targeting tumor angiogenesis.