

**Anti-Collagen Type IV (RABBIT) Antibody Biotin Conjugated**  
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**Catalog # ASR5852****Specification****Anti-Collagen Type IV (RABBIT) Antibody Biotin Conjugated - Product Information**

Host	Rabbit
Conjugate	Biotin
Target Species	Mammalian
Reactivity	Human, Bovine
Clonality	Polyclonal
Application	WB, IHC, E, IP, I, LCI
Application Note	Anti-Collagen Type IV is suitable for western blotting, IHC and for ELISA. Researchers should determine optimal titers for applications that are not stated below.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Anti-Collagen Type IV was produced by repeated immunizations with Collagen Type IV from human and bovine placenta.
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Sodium Azide

**Anti-Collagen Type IV (RABBIT) Antibody Biotin Conjugated - Additional Information****Gene ID** 1282**Other Names**  
1282**Purity**

Anti-Collagen Type IV has been prepared by immunoaffinity chromatography using immobilized antigens followed by extensive cross-adsorption against other collagens, human serum proteins and non-collagen extracellular matrix proteins to remove any unwanted specificities. Some class-specific anti-collagens may be specific for three-dimensional epitopes which may result in diminished reactivity with denatured collagen or formalin-fixed, paraffin embedded tissues. This antibody reacts with most mammalian Type IV collagens and has negligible cross-reactivity with Type I, II, III, V and VI collagens. Non-specific cross-reaction of anti-collagen antibodies with other human serum proteins or non-collagen extracellular matrix proteins is negligible.

**Storage Condition**

Store vial at 4° C prior to restoration. Restore with 0.1 mL of deionized water (or equivalent). For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and

thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

#### **Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

### **Anti-Collagen Type IV (RABBIT) Antibody Biotin Conjugated - Protein Information**

**Name** COL4A1 ([HGNC:2202](#))

#### **Function**

Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen.

#### **Cellular Location**

Secreted, extracellular space, extracellular matrix, basement membrane  
{ECO:0000250|UniProtKB:P02463}

#### **Tissue Location**

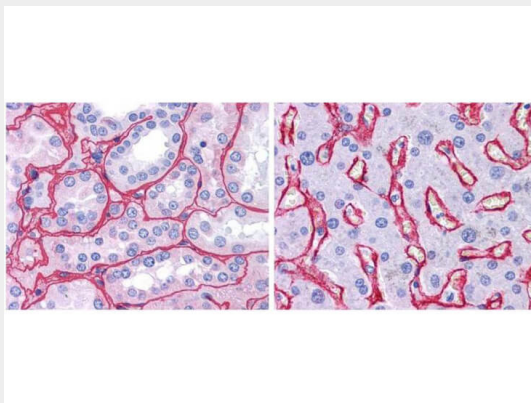
Highly expressed in placenta.

### **Anti-Collagen Type IV (RABBIT) Antibody Biotin Conjugated - 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 Type IV (RABBIT) Antibody Biotin Conjugated - Images**



Immunohistochemistry of Rabbit Anti-Collagen IV Conjugated Antibody (600-401-106). Tissue: human kidney (Left) with strong red staining observed in glomeruli and liver (Right) with strong

staining in sinusoids. Fixation: formalin fixed paraffin embedded. Antigen retrieval: steamed in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes. Primary antibody: Collagen IV antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Collagen IV is extracellular. Staining: Collagen IV as precipitated red signal with hematoxylin purple nuclear counterstain.

#### **Anti-Collagen Type IV (RABBIT) Antibody Biotin Conjugated - Background**

Anti-Collagen Type IV detects collagen. Type-IV collagen is a type of collagen found primarily in the basal lamina. It is the major structural element of basal membranes. Anti-Collagen Type IV antibody is ideal for investigators involved in Cell Signaling, Neuroscience and Signal Transduction research.