

Anti-Collagen Type IV (RABBIT) Antibody Biotin Conjugated
Collagen Type IV Antibody Biotin Conjugated
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

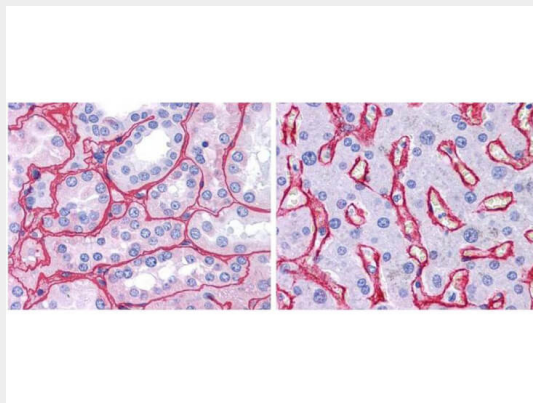
Highly expressed in placenta.

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.