

## Anti-Collagen Type IV (RABBIT) Antibody Biotin Conjugated - 600-406-106

**Code:** 600-406-106

**Size:** 100 µg

**Product Description:** Anti-Collagen Type IV (RABBIT) Antibody Biotin Conjugated - 600-406-106

**Concentration:** 1.0 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Lyophilized

|                               |  |
|-------------------------------|--|
| <b>Label</b>                  | Biotin   |
| <b>Host</b>                   | Rabbit   |
| <b>Gene Name</b>              | COL4A4   |
| <b>Species Reactivity</b>     | human, bovine  |
| <b>Buffer</b>                 | 0.125 M Sodium Borate, 0.075 M Sodium Chloride, 0.005 M EDTA, pH 8.0   |
| <b>Reconstitution Volume</b>  | 100 µL   |
| <b>Reconstitution Buffer</b>  | Restore with deionized water (or equivalent)   |
| <b>Stabilizer</b>             | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free   |
| <b>Preservative</b>           | 0.01% (w/v) Sodium Azide   |
| <b>Storage Condition</b>      | 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. Expiration date is one (1) year from date of restoration.  |
| <b>Synonyms</b>               | rabbit anti-Collagen Type IV antibody biotin conjugation, biotin conjugated rabbit anti-Collagen Type IV antibody, Arrestin antibody, Canstatin antibody, Collagen Of Basement Membrane Alpha 1 Chain antibody, Collagen alpha-1 (IV) chain, COL4A1  |
| <b>Application Note</b>       | 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.   |
| <b>Background</b>             | 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.  |
| <b>Purity And Specificity</b> | 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. Typically negligible cross-reactivity against other types of collagens was detected by ELISA against purified standards. 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. |
| <b>Assay Dilutions</b>        | User Optimized   |
| <b>ELISA</b>                  | 1:20,000 - 1:100,000   |
| <b>Western Blot</b>           | 1:2,000 - 1:10,000   |
| <b>Immunohistochemistry</b>   | 1:1,000 - 1:5,000  |
| <b>Other Assays</b>           | User Optimized   |
| <b>Expiration</b>             | Expiration date is one (1) year from date of opening.  |
| <b>Immunogen</b>              | Anti-Collagen Type IV was produced by repeated immunizations with Collagen Type IV from human and bovine placenta.   |
| <b>Related Products</b>       |  |
|                               | 001-001-106      Bovine COLLAGEN Type IV - 001-001-106   |
|                               | 009-001-106      Human COLLAGEN Type IV - 009-001-106  |

600-401-106-0.1 Anti-Collagen Type IV (RABBIT) Antibody - 600-401-106-0.1

600-401-106-0.5 Anti-Collagen Type IV (RABBIT) Antibody - 600-401-106-0.5

## Related Links

NCBI - P02462.3

<http://www.ncbi.nlm.nih.gov/protein/P02462.3>

UniProtKB - P02462

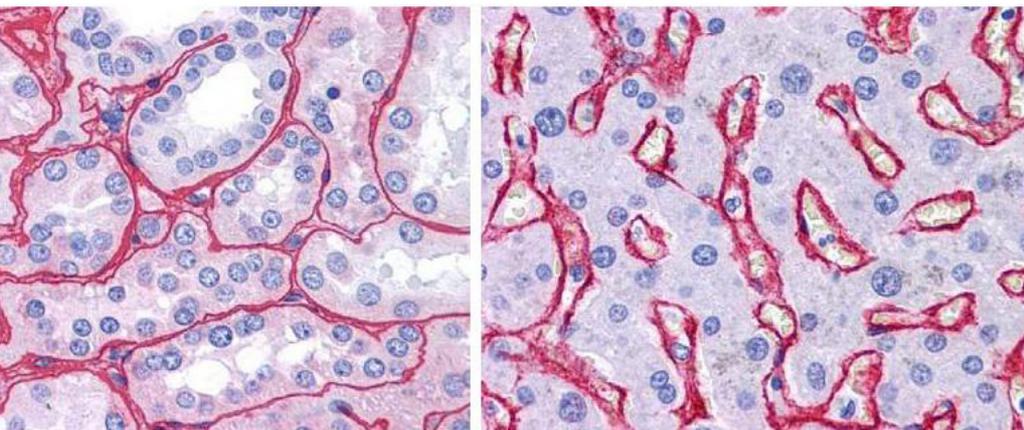
<http://www.uniprot.org/uniprot/P02462>

GeneID - 1282

## Images

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Immunohistochemistry of Rabbit Anti-Collagen IV Biotin Conjugated Antibody. 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.



## Disclaimer

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