

Datasheet for ABIN5596836
anti-Collagen IV antibody (Biotin)[Go to Product page](#)

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Overview

Quantity:	100 µg
Target:	Collagen IV (COL4)
Reactivity:	Human, Cow, Mammalian
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Collagen IV antibody is conjugated to Biotin
Application:	ELISA, Immunohistochemistry (IHC), Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Immunogen:	Immunogen: Anti-Collagen Type IV was produced by repeated immunizations with Collagen Type IV from human and bovine placenta. Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	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.
Purification:	Anti-Collagen Type IV has been prepared by immunoaffinity chromatography using immobilized antigens followed by extensive cross-adsorption against other collagens, human serum

Product Details

proteins and non-collagen extracellular matrix proteins to remove any unwanted specificities.

Target Details

Target:	Collagen IV (COL4)
Alternative Name:	Collagen Type IV (COL4 Products)
Background:	<p>Synonyms: Arresten antibody, Canstatin antibody, Collagen Of Basement Membrane Alpha 1 Chain antibody</p> <p>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.</p> <p>Gene Name: COL4A4</p>
Gene ID:	1282
UniProt:	P02462

Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 1:1,000 - 1:5,000</p> <p>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.</p> <p>Western Blot Dilution: 1:2,000 - 1:10,000</p> <p>Immunoprecipitation Dilution: 1:100</p> <p>ELISA Dilution: 1:20,000 - 1:100,000</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	<p>Reconstitution Volume: 100 µL</p> <p>Reconstitution Buffer: Restore with deionized water (or equivalent)</p>
Concentration:	1.0 mg/mL
Buffer:	<p>Buffer: 0.125 M Sodium Borate, 0.075 M Sodium Chloride, 0.005 M EDTA, pH 8.0</p> <p>Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free</p>

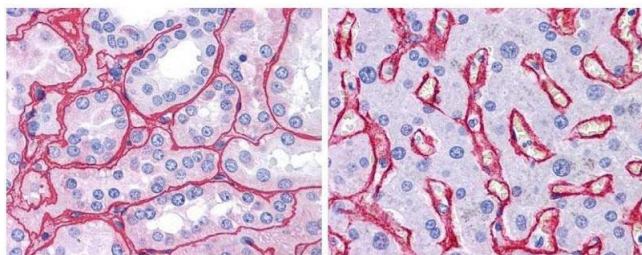
Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Publications

Product cited in:	Hayashi, Campenot, Vance, Vance: "Protection of neurons from apoptosis by apolipoprotein E-containing lipoproteins does not require lipoprotein uptake and involves activation of phospholipase Cgamma1 and inhibition of calcineurin." in: The Journal of biological chemistry , Vol. 284, Issue 43, pp. 29605-13, (2009) (PubMed).
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Images



Immunohistochemistry

Image 1. 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.