

Rabbit Collagen Type IV Polyclonal Antibody | anti-COL4 antibody

Collagen Type IV antibody (biotin)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA74982	Rabbit	Human, Bovine	Western Blot, Immunohistochemistry, ELISA

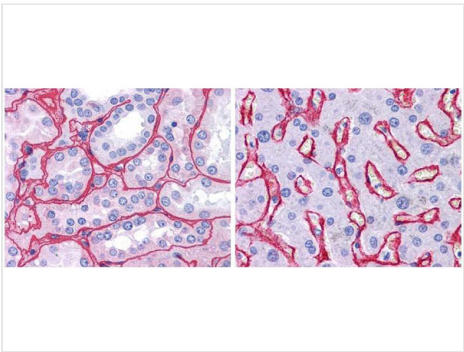
PRODUCT SYNONYMS

Collagen Type IV; Polyclonal Antibody; Collagen Type IV antibody (biotin); Polyclonal Collagen Type IV; Anti-Collagen Type IV; Collagen Of Basement Membrane alpha 1 Chain; Canstatin; Arresten; anti-COL4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Bovine
Clonality	Polyclonal
Specificity	Bovine/Human collagen type IV
Purity/Purification	Collagen Type IV antibody (biotin) was purified by affinity chromatography.
Form/Format	Lyophilized from 20mM Potassium Phosphate, pH 7.2, with 150mM Sodium Chloride, 10mg/ml BSA as a stabilizer (Immunoglobulin and Protease free), and 0.01% Sodium Azide added as a preservative. Reconstitute with 0.1ml of deionized water (or equivalent).
Concentration	100ug, lyophilized (varies by lot)
Applicable Applications for anti-COL4 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Tag/Conjugate	Biotin
Immunogen	Collagen type IV from human and bovine placenta
Species Reactivity Note	This antibody reacts with most mammalian Type IV collagens and has negligible cross reactivity with Type I, II, III, IV collagens. Non specific cross reaction with other human serum proteins or non-collagen extracellular matrix proteins is negligible.
Bioactivity	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
Biohazard Information	This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.
Preparation and Storage	Ships ambient or refrigerated. Upon receipt store at 4°C while lyophilized. After reconstituted, store at 4°C short term, or aliquot and store at -20°C long term. Avoid repeat freeze-thaws.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemical staining using Collagen Type IV antibodyAnti collagen IV antibody (1:400, 45 min RT) showed strong staining in FFPE sections of human kidney (Left) with strong red staining observed in glomeruli and liver (Right) with strong staining in sinusoids. Staining for both tissues was consistent with a basement membrane distribution. Slides were steamed in 0. 01 M sodium citrate buffer, pH 6. 0 at 99-100 deg C - 20 minutes for antigen retrieval.

ADDITIONAL INFORMATION

Related Product Information for anti-COL4 antibody	Collagen is a group of naturally occurring proteins found, in nature, exclusively in animals, especially in the flesh and connective tissues of mammals. It is the main component of connective tissue, and is the most abundant protein in mammals, making up about 25% to 35% of the whole-body protein content. Type-IV collagen is a type of collagen found primarily in the basal lamina. The C-terminus domain is not removed in post-translational processing, and the fibers link head-to-head, rather than in parallel. Also, type-IV lacks the regular glycine in every third residue necessary for the tight, collagen helix.
Product Categories/Family for anti-COL4 antibody	Cell Biology; Conjugated Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GeneID	1287
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/collagen-type-iv-antibody-western-blot-immunohistochemistry-elisa/74982>