

Anti-Collagen IV Antibody
Catalog # ABO10840

Specification

Anti-Collagen IV Antibody - Product Information

Application	WB, IHC
Primary Accession	P08572
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Collagen alpha-2(IV) chain(COL4A2) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Collagen IV Antibody - Additional Information

Gene ID 1284

Other Names

Collagen alpha-2(IV) chain, Canstatin, COL4A2

Calculated MW

167553 MW KDa

Application Details

Immunocytochemistry , 0.5-1 µg/ml, Human, -
Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Mouse, Rat, Human
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Secreted, extracellular space, extracellular matrix, basement membrane.

Protein Name

Collagen alpha-2(IV) chain

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Collagen IV(1697-1712aa LIRTHISRCQVCMKNL), identical to the related rat and mouse sequences.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the type IV collagen family.

Anti-Collagen IV Antibody - Protein Information

Name COL4A2 ([HGNC:2203](#))

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

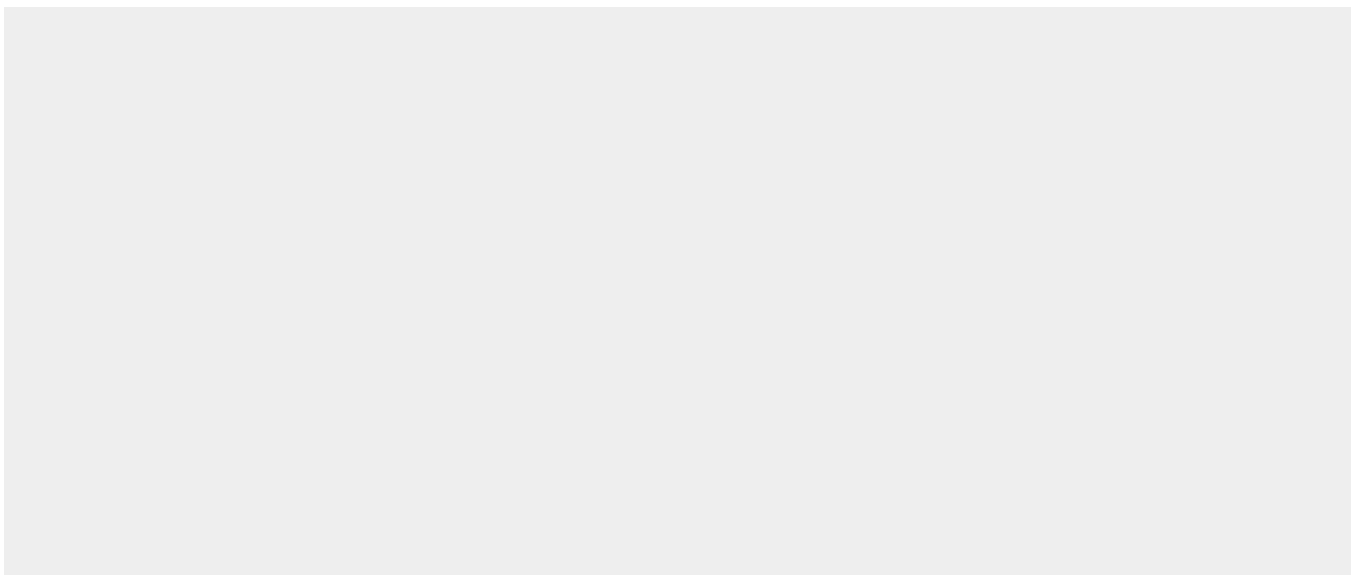
Secreted, extracellular space, extracellular matrix, basement membrane

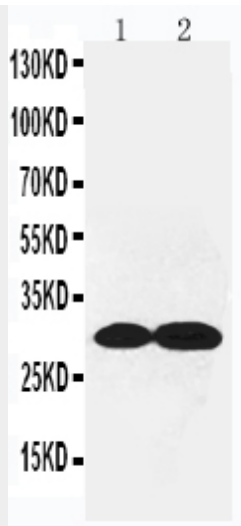
Anti-Collagen IV Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

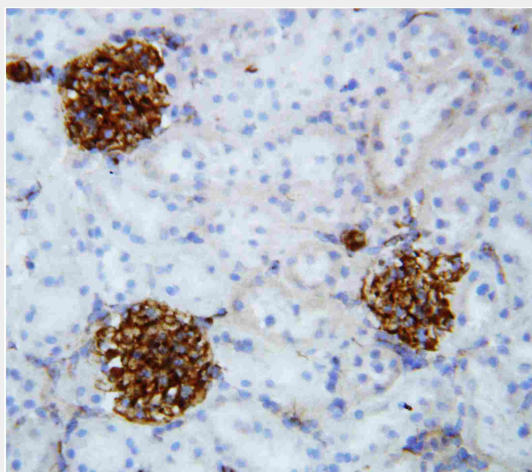
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Collagen IV Antibody - Images

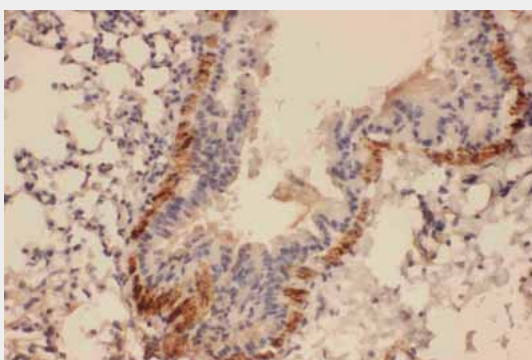




Anti-Collagen IV antibody, ABO10840, Western blotting Lane 1: Rat Kidney Tissue Lysate Lane 2: Rat Lung Tissue Lysate



Anti-Collagen IV antibody, ABO10840, IHC(F) IHC(F): Rat Kidney Tissue



Anti-Collagen IV antibody, ABO10840, IHC(P) IHC(P): Mouse Lung Tissue

Anti-Collagen IV Antibody - Background

Canstatin, a cleavage product corresponding to the collagen alpha 2(IV) NC1 domain, possesses both anti-angiogenic and anti-tumor cell activity. It inhibits proliferation and migration of endothelial cells, reduces mitochondrial membrane potential, and induces apoptosis. Specifically induces Fas-dependent apoptosis and activates procaspase-8 and -9 activity. Ligand for

alphavbeta3 and alphavbeta5 integrins.