

Anti-Collagen IV Antibody

Catalog # ABO10840

Product Information

Application	WB, IHC-P, IHC-F, ICC
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.

Additional Information

Gene ID	1284
Other Names	Collagen alpha-2(IV) chain, Canstatin, COL4A2
Calculated MW	167553
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.
Source	Eukaryota
Protein Name	Collagen alpha-2(IV) chain
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
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

Sequence Similarities

be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Belongs to the type IV collagen family.

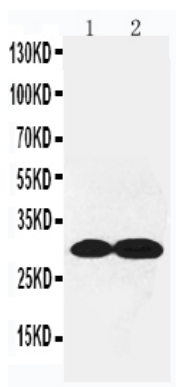
Protein Information

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

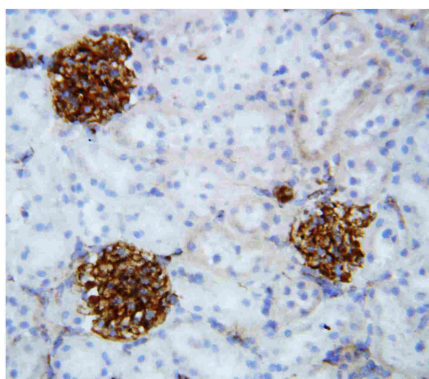
Background

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.

Images

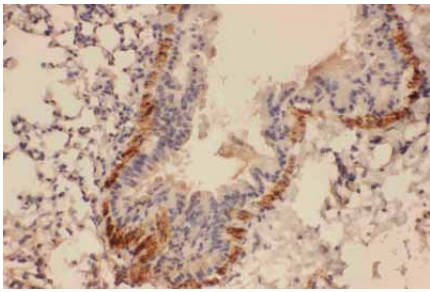


Anti-Collagen IV antibody, ABO10840, Western blotting
Lane 1: Rat Kidney Tissue Lysate
Lane 2: Rat Lung Tissue Lysate



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

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



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.