# antibodies -online.com





## anti-COL4a2 antibody (C-Term)

3 Images

13

100 μg

**Publications** 



Go to Product page

| _ |    |   |    |    |   |
|---|----|---|----|----|---|
| U | ١V | e | rv | le | V |

Quantity:

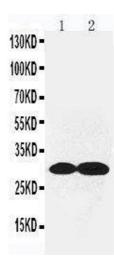
| COL4a2 (COL4A2)  AA 1697-1712, C-Term  Human, Mouse, Rat  |  |
|---|--|
|   |  |
| Human, Mouse, Rat   |  |
|   |  |
| Rabbit  |  |
| Polyclonal  |  |
| This COL4a2 antibody is un-conjugated   |  |
| Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))       |  |
|   |  |
| Rabbit IgG polyclonal antibody for Collagen alpha-2(IV) chain(COL4A2) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat.                                  |  |
| 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. |  |
| LIRTHISRCQ VCMKNL   |  |
| IgG   |  |
| (Details): No cross reactivity with other proteins.   |  |
| Rabbit IgG polyclonal antibody for Collagen alpha-2(IV) chain(COL4A2) detection. Tested with WB, IHC-P, IHC-F, ICC in Human, Mouse, Rat.                                |  |
|   |  |

#### **Product Details**

| Product Details     |   |  |
|---------------------|---|--|
|                     | Protein Name: Collagen alpha-2(IV) chain  |  |
| Purification:       | Immunogen affinity purified.  |  |
| Target Details      |   |  |
| Target:             | COL4a2 (COL4A2)   |  |
| Alternative Name:   | COL4A2 (COL4A2 Products)  |  |
| 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.   |  |
|                     | Synonyms: Arresten antibody Canstatin antibody CO4A1_HUMAN antibody COL4A1                          |  |
|                     | antibody COL4A1 NC1 domain antibody COL4A2 antibody COL4A3 antibody COL4A4                          |  |
|                     | antibody COL4A5 antibody Collagen Alpha 1(IV) Chain antibody Collagen Alpha 2(IV) Chain             |  |
|                     | antibody collagen alpha-1(IV) chain antibody Collagen IV Alpha 1 Polypeptide antibody Collagen      |  |
|                     | IV Alpha 2 Polypeptide antibody Collagen Of Basement Membrane Alpha 1 Chain                         |  |
|                     | antibody Collagen Of Basement Membrane Alpha 2 Chain antibody Collagen Type IV Alpha 1              |  |
|                     | antibody Collagen Type IV Alpha 2 antibody Collagen Type IV Alpha 3 antibody Collagen Type IV       |  |
|                     | Alpha 4 antibody Collagen Type IV Alpha 5 antibody DKFZp686I14213 antibody FLJ22259                 |  |
|                     | antibody  |  |
| UniProt:            | P08572  |  |
| Application Details |   |  |
| Application Notes:  | WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human, Rat, Predicted Species: Mouse              |  |
|                     | IHC-P: Concentration: 0.5-1 μg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by          |  |
|                     | Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for th |  |
|                     | staining of formalin/paraffin sections.   |  |
|                     | IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human             |  |
|                     | ICC: Concentration: 0.5-1 μg/mL, Tested Species: Human  |  |
|                     | Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to b     |  |
|                     | fit for the product based on sequence similarities. Other applications have not been tested.        |  |
|                     | Optimal dilutions should be determined by end users.  |  |
|                     |   |  |

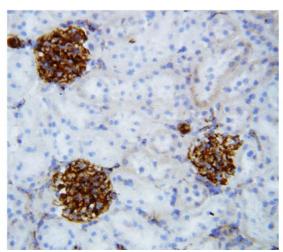
## **Application Details**

| Comment:           | Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by                |  |
|--------------------|--|--|
|                    | ABIN921231 in IHC(P), IHC(F) and ICC.  |  |
| Restrictions:      | For Research Use only  |  |
|                    |  |  |
| Handling           |  |  |
| Format:            | Lyophilized  |  |
| Reconstitution:    | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.                           |  |
| Concentration:     | 500 μg/mL  |  |
| Buffer:            | Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg            |  |
|                    | Sodium azide.  |  |
| Preservative:      | Thimerosal (Merthiolate), Sodium azide   |  |
| Precaution of Use: | This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND                   |  |
|                    | HAZARDOUS SUBSTANCES which should be handled by trained staff only.                              |  |
| Handling Advice:   | Avoid repeated freezing and thawing.   |  |
| Storage:           | 4 °C/-20 °C  |  |
| Storage Comment:   | 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.   |  |
| Expiry Date:       | 12 months  |  |
| Publications       |  |  |
| - UDIICATIONS      |  |  |
| Product cited in:  | Li, Byrd, Doh, Dixon, Lee, Tiwari, Ecelbarger: "Absence of renal enlargement in fructose-fed     |  |
|                    | proximal-tubule-select insulin receptor (IR), insulin-like-growth factor receptor (IGF1R) double |  |
|                    | knockout mice." in: <b>Physiological reports</b> , Vol. 4, Issue 23, (2018) (PubMed).            |  |
|                    | There are more publications referencing this product on: Product page                            |  |



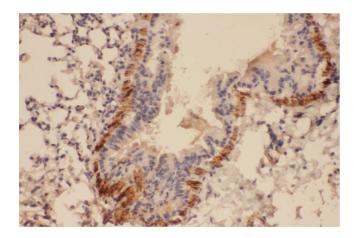
## **Western Blotting**

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



### **Immunohistochemistry**

 $\label{lemage 2.} \textbf{Image 2.} \ \, \textbf{Anti-Collagen IV antibody, IHC(F)} \ \, \textbf{IHC(F): Rat}$   $\, \textbf{Kidney Tissue}$ 



## **Immunohistochemistry**

 $\label{eq:local_local_problem} \textbf{Image 3.} \ \, \text{Anti-Collagen IV antibody, IHC(P) IHC(P): Mouse} \\ \, \text{Lung Tissue}$