

[KD Validated] COL4A3 Rabbit pAb**Catalog No.: A16359****1 Publications****Basic Information****Observed MW**

162 kDa

Calculated MW

162 kDa

Category

Polyclonal Antibodies

Applications

WB, IF/ICC, ELISA

Cross Reactivity

Human, Mouse, Rat

Background

Type IV collagen, the major structural component of basement membranes, is a multimeric protein composed of 3 alpha subunits. These subunits are encoded by 6 different genes, alpha 1 through alpha 6, each of which can form a triple helix structure with 2 other subunits to form type IV collagen. This gene encodes alpha 3. In the Goodpasture syndrome, autoantibodies bind to the collagen molecules in the basement membranes of alveoli and glomeruli. The epitopes that elicit these autoantibodies are localized largely to the non-collagenous C-terminal domain of the protein. A specific kinase phosphorylates amino acids in this same C-terminal region and the expression of this kinase is upregulated during pathogenesis. This gene is also linked to an autosomal recessive form of Alport syndrome. The mutations contributing to this syndrome are also located within the exons that encode this C-terminal region. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter.

Recommended Dilutions**WB** 1:1000 - 1:10000**IF/ICC** 1:50 - 1:200**ELISA**

Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information**Gene ID**

1285

Swiss-Prot

Q01955

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

ATS2; ATS3; BFH2; COL4A3

Contact | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn**Product Information****Source**

Rabbit

Isotype

IgG

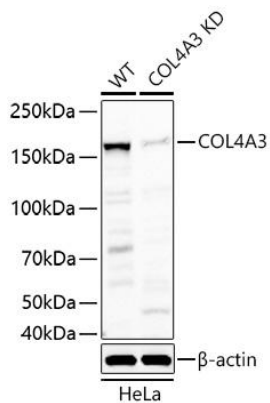
Purity

Affinity purification

Storage

Store at -20°C

Validation Data



Western blot analysis of lysates from wild type (WT) and COL4A3 knockdown (KD) HeLa cells using [KD Validated] COL4A3 Rabbit pAb (A16359) at 1:5000 dilution incubated overnight at 4°C.

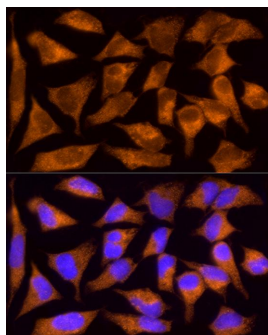
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

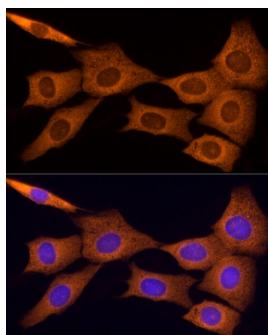
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

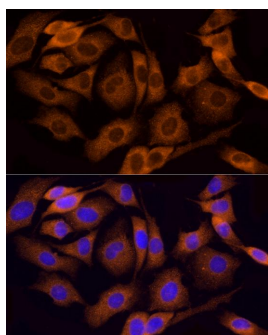
Exposure time: 30 s.



Immunofluorescence analysis of HeLa cells using [KD Validated] COL4A3 Rabbit pAb (A16359) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using [KD Validated] COL4A3 Rabbit pAb (A16359) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using [KD Validated] COL4A3 Rabbit pAb (A16359) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.