

Collagen IV Rabbit mAb

Catalog No.: A25131 **Recombinant** **1 Publications**

Basic Information

Observed MW

180kDa

Calculated MW

162kDa

Category

Primary antibody

Applications

WB, IF/ICC, ELISA

Cross-Reactivity

Human, Rat

CloneNo number

ARC65620

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 1:500 - 1:1000**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

1285/1287/1284/1282

Swiss Prot

Q01955/P29400/P08572/P02462

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

ATS2; ATS3; BFH2; COL4A3/COL4A5/COL4A2/COL4A1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

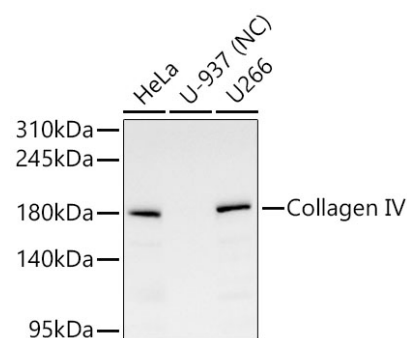
Affinity purification

Storage

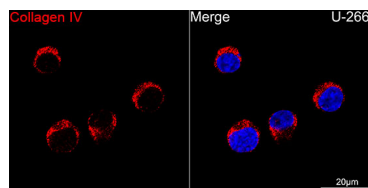
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of various lysates using Collagen IV Rabbit mAb (A25131) at 1:1000 dilution.
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).
Negative control (NC): U-937.
Exposure time: 45s.



Confocal imaging of U-266 cells
using Collagen IV Rabbit mAb
(A25131,dilution 1:200) followed by a further
incubation with Cy3 Goat Anti-Rabbit IgG
(H+L) (AS007,dilution 1:500)(Red). DAPI was
used for nuclear staining (Blue). Objective:
100x.