

## **Product datasheet for TA342815**

## Collagen IV (COL4A3) Rabbit Polyclonal Antibody

## **Product data:**

**Product Type:** Primary Antibodies

Applications: WB

Recommended Dilution: WB

Reactivity: Human

Host: Rabbit

**Isotype:** IgG

Clonality: Polyclonal

**Immunogen:** The immunogen for anti-COL4A3 antibody: synthetic peptide directed towards the middle

region of human COL4A3. Synthetic peptide located within the following region:

DPGQPGPPGEQGPPGRCIEGPRGAQGLPGLNGLKGQQGRRGKTGPKGDPG

Formulation: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2%

sucrose.

Note that this product is shipped as lyophilized powder to China customers.

Conjugation: Unconjugated

**Storage:** Store at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

**Predicted Protein Size:** 156 kDa

**Gene Name:** collagen type IV alpha 3 chain

Database Link: NP 112730

Entrez Gene 1285 Human

Q01955



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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 noncollagenous 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. There are multiple alternate transcripts that appear to be unique to this human alpha 3 gene and alternate splicing is restricted to the six exons that encode this C-terminal domain. 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 Cterminal 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. Some exons of this gene are interspersed with exons of an uncharacterized gene which is on the opposite strand.

Synonyms:

alpha-3 polypeptide; alpha 3 (Goodpasture antigen); alpha 3 type IV collagen; alpha3 type IV collagen; collagen; collagen IV; Goodpasture antigen; OTTHUMP00000195044; TUMSTATIN; tumstatin; type IV

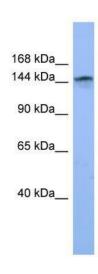
Note:

Immunogen Sequence Homology: Human: 100%; Pig: 93%; Horse: 93%; Bovine: 93%; Dog: 91%; Rat: 91%; Mouse: 91%; Guinea pig: 86%; Rabbit: 85%

**Protein Families:** 

Druggable Genome

## **Product images:**



WB Suggested Anti-COL4A3 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:62500; Positive Control: HepG2 cell lysate