

## Product datasheet for **TA323739**

### Collagen IV (COL4A3) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 25-100 Positive control: Human ovarian cancer Predicted cell location: Secreted, ExtraCellular matrix, ExtraCellular space
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 41-52 amino acids of human collagen, type IV, alpha 3 (Goodpasture antigen)
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	collagen type IV alpha 3 chain
Database Link:	<a href="#">NP_000082</a> <a href="#">Entrez Gene 12828 Mouse</a> <a href="#">Entrez Gene 1285 Human</a> <a href="#">Q01955</a>



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**Background:**

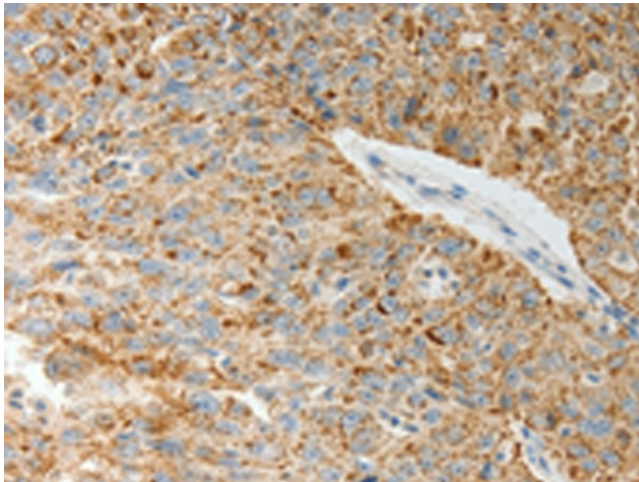
Type IV collagen; the major structural component of basement membranes; is a multimeric protein composed of 3 alpha subunits. These subunits are encoded by 6 different genes; alpha 1 through alpha 6; each of which can form a triple helix structure with 2 other subunits to form type IV collagen. This 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 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.

**Synonyms:**

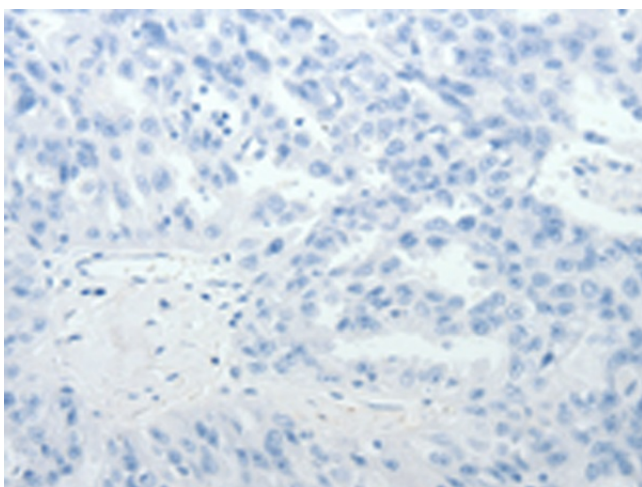
alpha-3 polypeptide; alpha 3 (Goodpasture antigen); alpha 3 type IV collagen; alpha3 type IV collagen; collagen; collagen IV; Goodpasture antigen; OTTHUMP00000195044; TUMSTATIN; tumstatin; type IV

**Protein Families:**

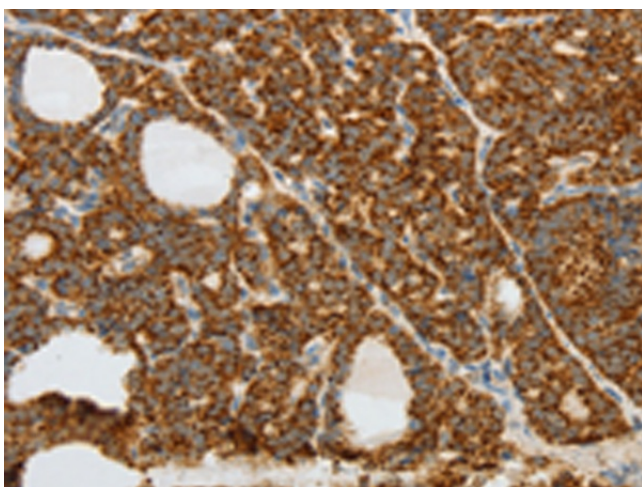
Druggable Genome

**Product images:**

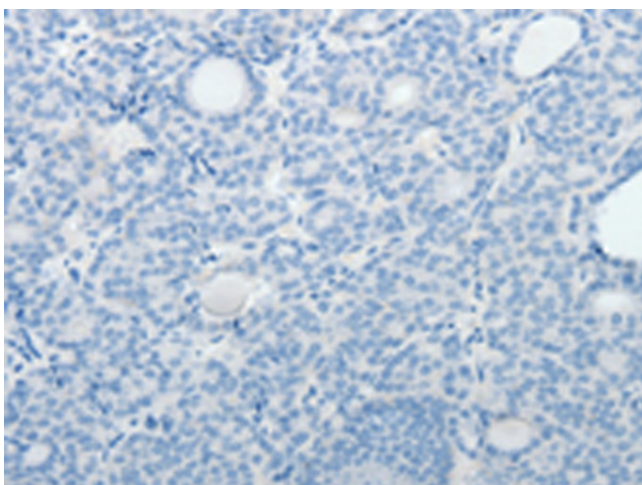
Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA323739 (COL4A3 Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA323739 (COL4A3 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA323739 (COL4A3 Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA323739 (COL4A3 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification:  $\times 200$ )