

## Collagen alpha-2(IV) chain Polyclonal Antibody

Catalog No: #42553

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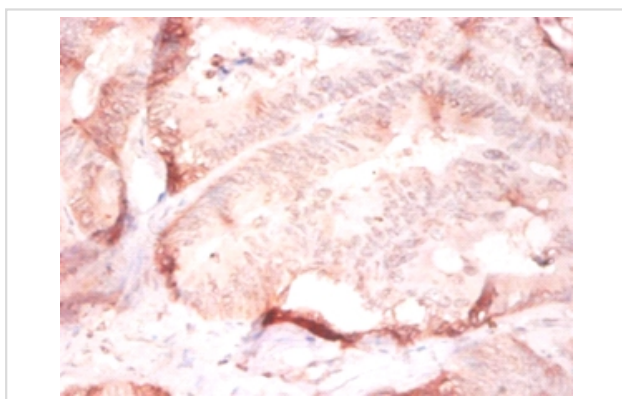
## Description

Product Name	Collagen alpha-2(IV) chain Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total Collagen alpha-2(IV) chain polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human Alkaline phosphatase, tissue-nonspecific isozyme
Target Name	Collagen alpha-2(IV) chain
Other Names	COL4A2
Accession No.	Swiss-Prot#: P08572
Uniprot	P08572
GeneID	1284;
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

## Application Details

Immunohistochemistry: 1:20 - 1:200

## Images



Immunohistochemical analysis of paraffin-embedded human colorectal carcinoma using #42553 at dilution of 1:50.

## Background

Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen. Ref.13 Ref.17 Ref.18 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.

## References

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[1] "The complete primary structure of the alpha 2 chain of human type IV collagen and comparison with the alpha 1(IV) chain." Hostikka S.L., Tryggvason K.J. Biol. Chem. 263:19488-19493(1988) [2] "The DNA sequence and analysis of human chromosome 13." Du

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Note: This product is for in vitro research use only