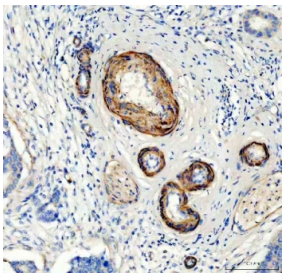
Collagen IV Antibody / COL4A2 / Canstatin fragment (R30596)

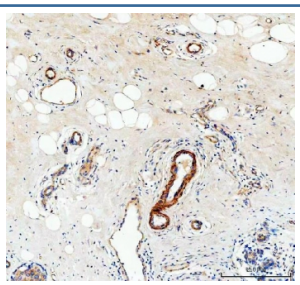
Catalog No.	Formulation	Size
R30596	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

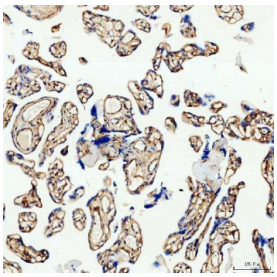
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P08572
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This Collagen IV antibody is available for research use only.



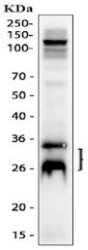
IHC testing of FFPE human breast cancer tissue with Canstatin / Collagen IV antibody at 1ug/ml. Required HIER: steam section in pH8 EDTA buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human breast cancer tissue with Canstatin / Collagen IV antibody at 1ug/ml. Required HIER: steam section in pH8 EDTA buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human placental tissue with Canstatin / Collagen IV antibody at 1ug/ml. Required HIER: steam section in pH8 EDTA buffer for 20 min and allow to cool prior to staining.



Western blot testing of human placental tissue lysate with Canstatin / Collagen IV antibody at 0.5ug/ml. Expected molecular weight of Canstatin: 24-30 kDa.

Description

Canstatin, a cleavage product corresponding to the collagen alpha 2(IV) NC1 domain, is one of the six subunits of Collagen IV and 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.

Application Notes

Titration of the Collagen IV antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Collagen IV COL4A2 (amino acids 1697-1712: LIRTHISRCQVCMKNL) was used as the immunogen for this Collagen IV antibody (100% homologous in human, mouse and rat). This amino acid sequence is from the Canstatin fragment of the protein.

Storage

The lyophilized Collagen IV antibody can be stored at 4oC to -20oC. After reconstitution, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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