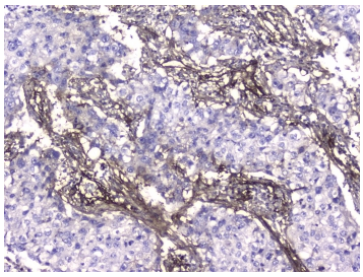
Collagen IV Antibody / COL4A1 [clone 3G3] (RQ4519)

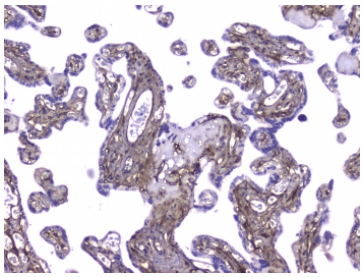
Catalog No.	Formulation	Size
RQ4519	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

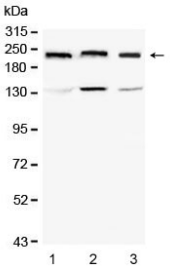
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Name	3G3
Purity	Protein G affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P02462
Localization	Secreted
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Collagen IV antibody is available for research use only.



IHC testing of FFPE human lung cancer with Collagen IV antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE human placenta with Collagen IV antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of human 1) HEK293T, 2) HeLa and 3) A549 cell lysate with Collagen IV antibody at 0.5ug/ml. Predicted molecular weight ~160 kDa but may be observed at a larger size due to glycosylation.

Description

COL4A1, also known as ICH or Collagen alpha-1(IV), is a protein that in humans is encoded by the COL4A1 gene. It is mapped to 13q34. This gene encodes the major type IV alpha collagen chain of basement membranes. 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. COL4A1 binds to alpha-1/beta-1 integrin and inhibits migration, proliferation, and tube formation by endothelial cells. It is also a potential therapeutic candidate for targeting tumor angiogenesis.

Application Notes

Optimal dilution of the Collagen IV antibody should be determined by the researcher.

Immunogen

Human Collagen IV recombinant protein (amino acids G1445-T1669) was used as the immunogen for the Collagen IV antibody.

Storage

After reconstitution, the Collagen IV antibody can be stored for up to one month at 4oC. For long-term, 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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