

Collagen III alpha 1/COL3A1 Rabbit mAb

Catalog No.: A29557

Basic Information

Observed MW

200 kDa

Calculated MW

112 kDa/139 kDa

Category

Monoclonal Antibodies

Applications

WB, IF-P, IHC-P, ELISA

Cross Reactivity

Human

Clone No.

ARC81409

Background

This gene encodes the pro- $\alpha 1$ chains of type III collagen, a fibrillar collagen that is found in extensible connective tissues such as skin, lung, uterus, intestine and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome type IV, and with aortic and arterial aneurysms.

Recommended Dilutions

WB 1:2000 - 1:5000**IF-P** 1:200 - 1:600**IHC-P** 1:1000 - 1:4000**ELISA**

Recommended starting concentration is 1 μ g/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

1281

Swiss-Prot

P02461

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

EDS4A; EDSVASC; PMGEDSV

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

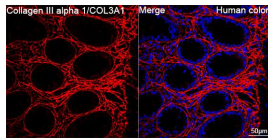
Purity

Affinity purification

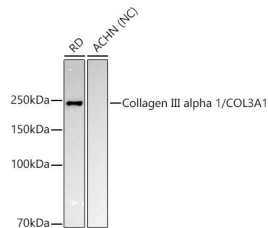
Storage

Store at -20°C

Validation Data



Confocal imaging of paraffin-embedded Human colon tissue using Collagen III alpha 1/COL3A1 Rabbit mAb (A29557, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Western blot analysis of various lysates using Collagen III alpha 1/COL3A1 Rabbit mAb (A29557) at 1:5000 dilution incubated overnight at 4°C.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

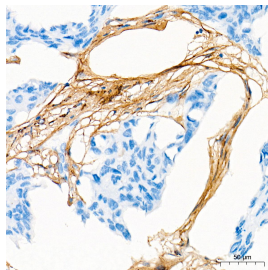
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

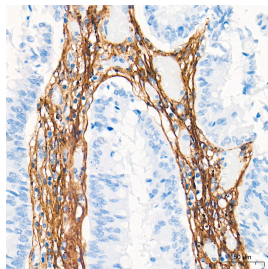
Negative control (NC): ACHN.

Detection: ECL Basic Kit (RM00020).

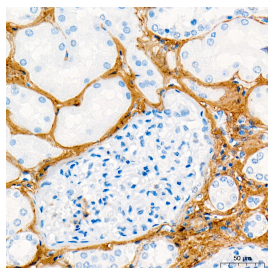
Exposure time: 45 s.



Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using Collagen III alpha 1/COL3A1 Rabbit mAb (A29557) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Collagen III alpha 1/COL3A1 Rabbit mAb (A29557) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using Collagen III alpha 1/COL3A1 Rabbit mAb (A29557) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.