

For Research Use Only

# Collagen Type III (N-terminal) Recombinant antibody



Catalog Number: 80009-1-RR

## Basic Information

<b>Catalog Number:</b> 80009-1-RR	<b>GenBank Accession Number:</b> BC028178	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 750 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1281	<b>CloneNo.:</b> 201
<b>Source:</b> Rabbit	<b>Full Name:</b> collagen, type III, alpha 1	<b>Recommended Dilutions:</b> IHC 1:2000-1:8000 IF 1:50-1:500
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 1466 aa, 139 kDa	
<b>Immunogen Catalog Number:</b> AG18658		

## Applications

### Tested Applications:

IF, IHC, ELISA

### Species Specificity:

Human

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

### Positive Controls:

**IHC :** human colon tissue, human colon cancer tissue,  
human ovary tumor tissue, human pancreas cancer  
tissue, human skin cancer tissue

**IF :** human colon tissue,

## Background Information

Type III collagen is a fibrillar forming collagen comprising three  $\alpha 1(\text{III})$  chains and is expressed in early embryos and throughout embryogenesis (PMID: 9050868). In the adult, type III collagen is a major component of the extracellular matrix in a variety of internal organs and skin. It occurs in most soft connective tissues along with type I collagen (PMID: 2445760). COL3A1 gene encodes type III procollagen. Mutations in this gene are associated with Ehlers-Danlos syndrome types IV, and with aortic and arterial aneurysms (PMID: 10706896; 2243125; 18389341). This antibody was raised against 24-152 aa of prepro  $\alpha 1(\text{III})$  chain of human type III procollagen. It can't recognize mouse or rat type III collagen.

## Storage

### Storage:

Store at -20°C.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

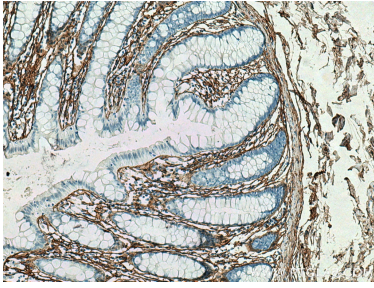
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
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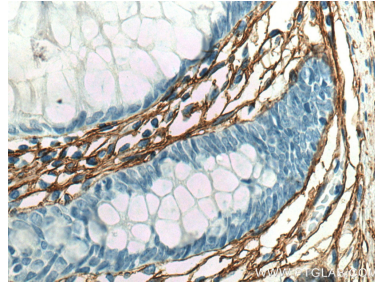
E: proteintech@ptglab.com  
W: ptglab.com

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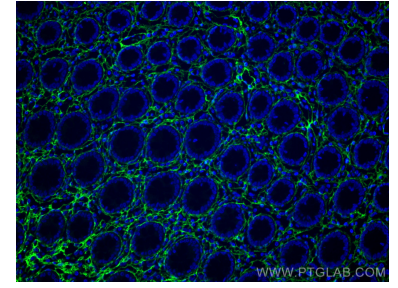
## Selected Validation Data



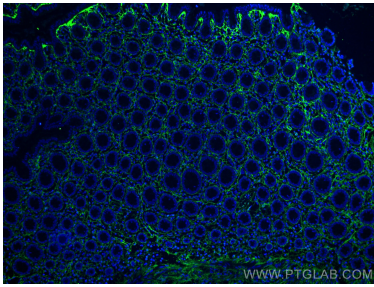
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80009-1-RR (COL3A1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80009-1-RR (COL3A1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human colon tissue using Collagen Type III (N-terminal) antibody (80009-1-RR, Clone: 2O1) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human colon tissue using Collagen Type III (N-terminal) antibody (80009-1-RR, Clone: 2O1) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).