

For Research Use Only

# Collagen Type III (N-terminal) Recombinant antibody, PBS Only



Catalog Number: 80009-1-PBS

## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>80009-1-PBS       | <b>GenBank Accession Number:</b><br>BC028178     | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>1 mg/ml                     | <b>GeneID (NCBI):</b><br>1281                    | <b>CloneNo.:</b><br>201                               |
| <b>Source:</b><br>Rabbit                    | <b>UNIPROT ID:</b><br>P02461                     |   |
| <b>Isotype:</b><br>IgG                      | <b>Full Name:</b><br>collagen, type III, alpha 1 |   |
| <b>Immunogen Catalog Number:</b><br>AG18658 | <b>Calculated MW:</b><br>1466 aa, 139 kDa        |   |

## Applications

**Tested Applications:**  
Indirect ELISA, IHC, IF

**Species Specificity:**  
Human

## 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  $-80^{\circ}\text{C}$ .  
**Storage Buffer:**  
PBS Only

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

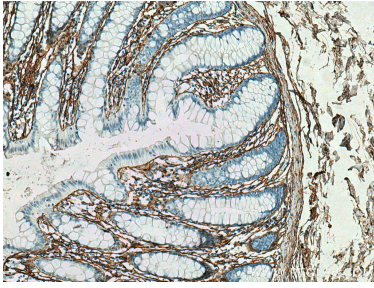
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

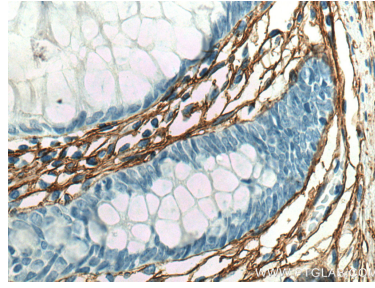
W: [ptgcn.com](http://ptgcn.com)

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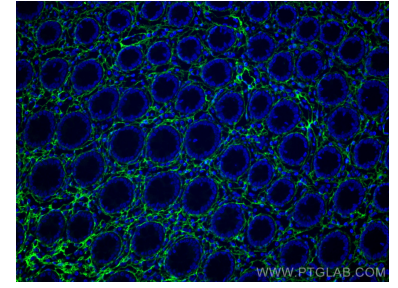
## Selected Validation Data



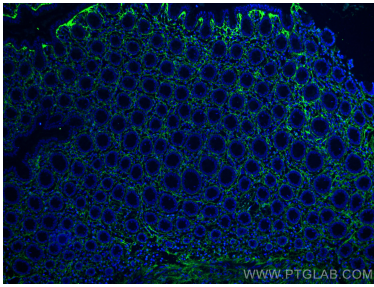
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80009-1-RR (COL3A1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80009-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 80009-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 80009-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 80009-1-PBS in a different storage buffer formulation.