

For Research Use Only

Collagen Type III (N-terminal) Recombinant antibody

Catalog Number: 80009-1-RR



Basic Information

Catalog Number: 80009-1-RR	GenBank Accession Number: BC028178	Purification Method: Protein A purification
Size: 100ul , Concentration: 750 ug/ml by Nanodrop;	GeneID (NCBI): 1281	CloneNo.: 201
Source: Rabbit	UNIPROT ID: P02461	Recommended Dilutions: IHC 1:2000-1:8000 IF-P 1:50-1:500
Isotype: IgG	Full Name: collagen, type III, alpha 1	
Immunogen Catalog Number: AG18658	Calculated MW: 1466 aa, 139 kDa	

Applications

Tested Applications:

IHC, IF-P, 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-P : 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 . Stable for one year after shipment.

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 in USA), or 1(312) 455-8498 (outside USA)

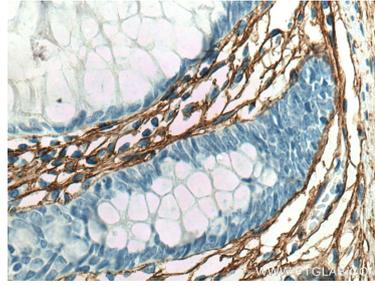
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

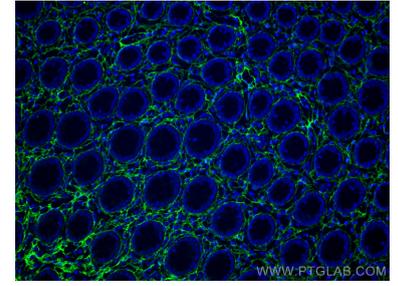
Selected Validation Data



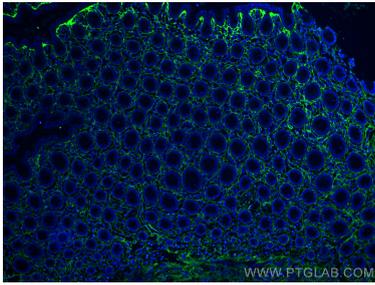
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80009-1-RR (COL3A1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



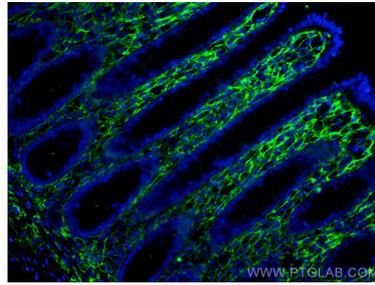
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80009-1-RR (COL3A1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



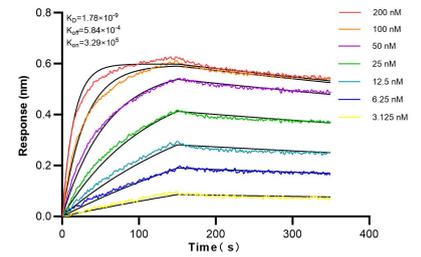
Immunofluorescent analysis of (4% PFA) fixed human colon tissue using Collagen Type III (N-terminal) antibody (80009-1-RR, Clone: 2O1) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



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 Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human colon tissue using Collagen Type III (N-terminal) antibody (80009-1-RR, Clone: 2O1) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bi-layer interferometry (BLI) kinetic assays of 80009-1-RR against Human Collagen Type III (N-terminal) were performed. The affinity constant is 1.78 nM.