

For Research Use Only

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



Catalog Number: 80009-1-PBS

Basic Information

Catalog Number: 80009-1-PBS	GenBank Accession Number: BC028178	Purification Method: Protein A purification
Size: 100ug, Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 1281	CloneNo.: 201
Source: Rabbit	UNIPROT ID: P02461	
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, Indirect ELISA

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°C .

Storage Buffer:
PBS Only

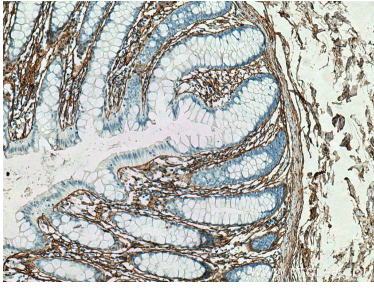
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

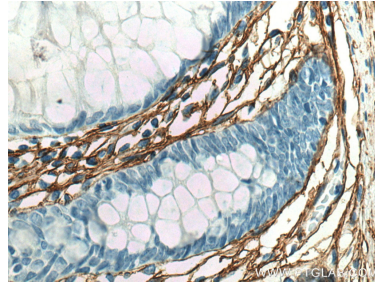
E: proteintech@ptglab.com
W: ptglab.com

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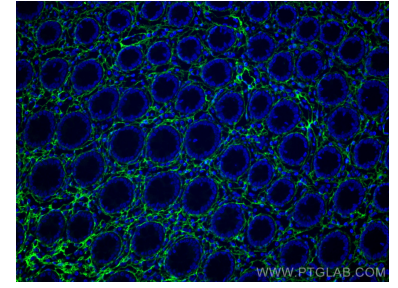
Selected Validation Data



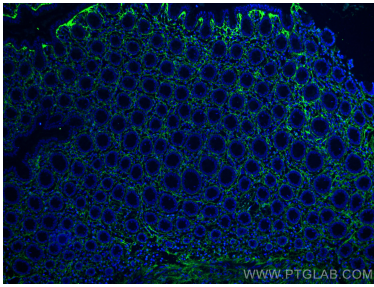
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80009-1-RR (COL3A1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80009-1-PBS in a different storage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



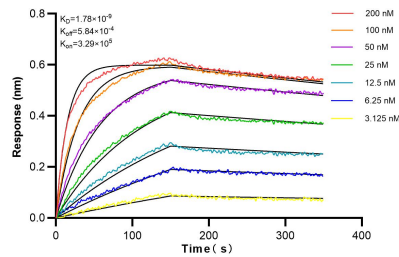
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80009-1-RR (COL3A1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80009-1-PBS in a different storage 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.



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