

Collagen Type III (N-terminal)

Recombinant antibody, PBS Only

Catalog Number: 80009-1-PBS

Basic Information

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

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

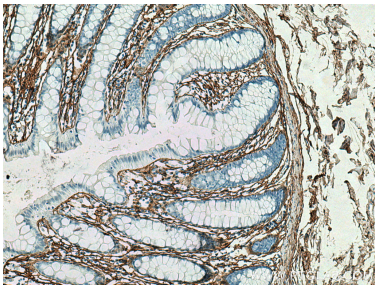
For technical support and original validation data for this product please contact:

T: 4006900926

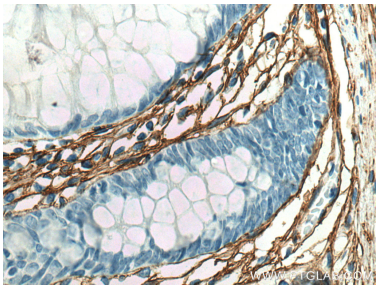
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

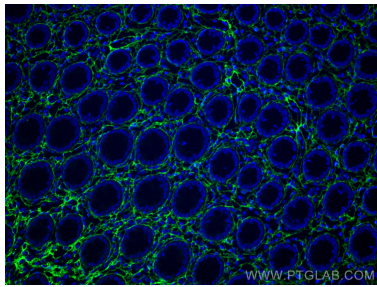
Selected Validation Data



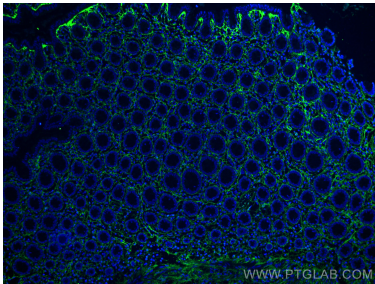
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80009-1-RR (COL3A1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80009-1-PBS in a different storage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



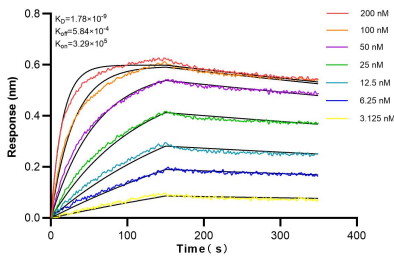
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80009-1-RR (COL3A1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80009-1-PBS in a different storage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



Immunofluorescent analysis of (4% PFA) fixed human colon tissue using Collagen Type III (N-terminal) antibody (80009-1-RR, Clone: 201) 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: 201) 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.