

For Research Use Only

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



Catalog Number: 22734-1-PBS

Featured Product

1 Publications

Basic Information

Catalog Number:

22734-1-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18658

GenBank Accession Number:

BC028178

GeneID (NCBI):

1281

UNIPROT ID:

P02461

Full Name:

collagen, type III, alpha 1

Calculated MW:

1466 aa, 139 kDa

Observed MW:

140-180 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF-P, IF-Fro, IP, Indirect ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

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 raised against 24-152 aa of prepro $\alpha 1(\text{III})$ chain of human type III procollagen detects type III procollagen at 140-180 kDa and also in some lysates reveals a 70-kDa band which has been reported and may represent a cleaved form of type III procollagen (PMID: 17424834; 19648160; 22802960).

Notable Publications

Author	Pubmed ID	Journal	Application
Sun-Young Lee	40232888	FASEB J	WB

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, pH7.3

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

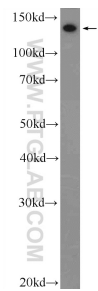
T: 4006900926

E: Proteintech-CN@ptglab.com

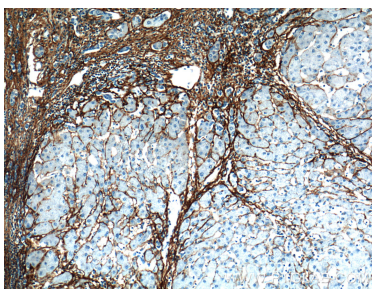
W: ptgcn.com

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

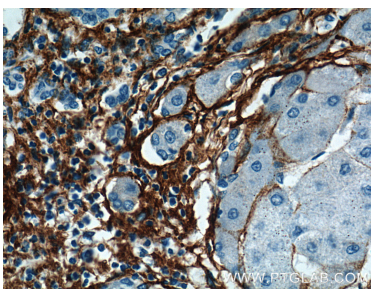
Selected Validation Data



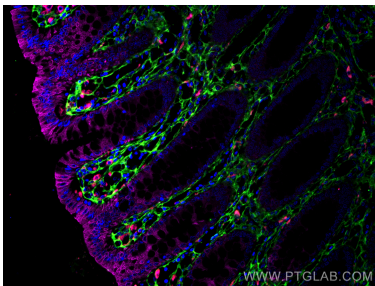
mouse skin tissue were subjected to SDS PAGE followed by western blot with 22734-1-AP (Collagen Type III (N-terminal) antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 22734-1-PBS in a different storage buffer formulation.



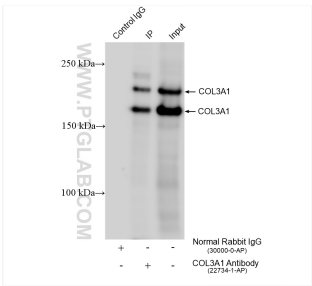
Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 22734-1-AP (Collagen Type III (N-terminal) antibody at dilution of 1:1000 (under 10x lens). This data was developed using the same antibody clone with 22734-1-PBS in a different storage buffer formulation.



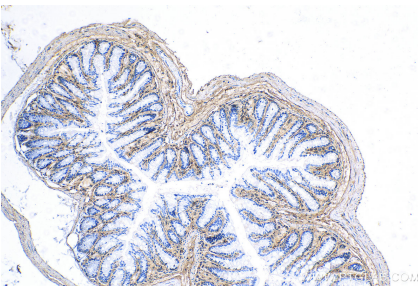
Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 22734-1-AP (Collagen Type III (N-terminal) antibody at dilution of 1:1000 (under 40x lens). This data was developed using the same antibody clone with 22734-1-PBS in a different storage buffer formulation.



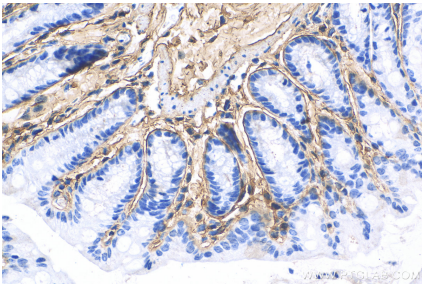
Immunofluorescent analysis of (4% PFA) fixed human colon tissue using Collagen Type III (N-terminal) antibody (22734-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), Cytokeratin 20 antibody (60183-1-Ig, Clone: 4D10A4, Magenta), CoraLite@594 CD68 antibody (CL594-25747, red). This data was developed using the same antibody clone with 22734-1-PBS in a different storage buffer formulation.



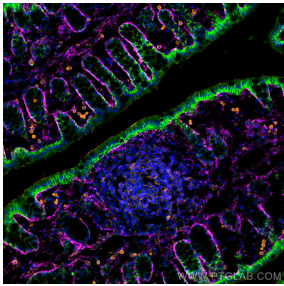
IP result of anti-Collagen Type III (N-terminal) (IP:22734-1-AP, 4ug; Detection:22734-1-AP 1:3000) with mouse skin tissue lysate 1120 ug. This data was developed using the same antibody clone with 22734-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 22734-1-AP (Collagen Type III (N-terminal) antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 22734-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 22734-1-AP (Collagen Type III (N-terminal) antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 22734-1-PBS in a different storage buffer formulation.



Immunofluorescence of mouse colon: Frozen OCT-embedded mouse colon sections were stained with anti-E-cadherin antibody (20874-1-AP) labeled with CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2, green) in the first step, anti-CD45 antibody (80297-1-RR) labeled with FlexAble CoraLite Plus 555 Kit (KFA002, orange) in the second step, anti-Collagen Type III antibody (22734-1-AP) labeled with FlexAble CoraLite647 Kit (KFA003, magenta) in the third step. This data was developed using the same antibody clone with 22734-1-PBS in a different storage buffer formulation.