

For Research Use Only

# COL6A1 Polyclonal antibody

Catalog Number: 17023-1-AP

Featured Product

35 Publications



## Basic Information

### Catalog Number:

17023-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG10288

### GenBank Accession Number:

BC052575

### GeneID (NCBI):

1291

### UNIPROT ID:

P12109

### Full Name:

collagen, type VI, alpha 1

### Calculated MW:

1028 aa, 109 kDa

### Observed MW:

140 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate

IHC 1:300-1:1200

IF-P 1:50-1:500

IF 1:20-1:200

## Applications

### Tested Applications:

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

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, zebrafish, sheep

**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:

**WB** : mouse heart tissue, HEK-293T cells, human heart tissue, human skeletal muscle tissue, rat heart tissue

**IP** : mouse heart tissue,

**IHC** : human colon tissue, human liver tissue, mouse liver tissue, human heart tissue, human hepatocirrhosis tissue, human kidney tissue, human placenta tissue, human testis tissue, human spleen tissue, human lung tissue, human ovary tissue, human skin cancer tissue

**IF-P** : human colon tissue, mouse skeletal muscle tissue

**IF** : mouse skeletal muscle tissue,

## Background Information

Type VI Collagen is a major structural component of microfibrils. Type VI Collagen was found to be present throughout the connective tissue and in the extracellular matrix of cultured fibroblasts (PMID: 6723253). It is a heterotrimer composed of three different chains: alpha-1(VI), alpha-2(VI), and alpha-3(VI) or alpha-5(VI) or alpha-6(VI). The alpha-1(VI) chain is encoded by COL6A1 gene. Mutations in this gene result in Bethlem myopathy and Ullrich congenital muscular dystrophy.

## Notable Publications

Author	Pubmed ID	Journal	Application
Fangning Wan	26317545	Oncotarget	IHC
Paez-Cortez Jesus J	24040256	PLoS One	
Meng-Han Zhang	36273780	Respir Physiol Neurobiol	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

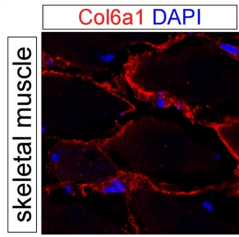
For technical support and original validation data for this product please contact:

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

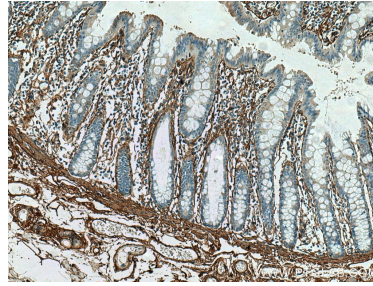
E: proteintech@ptglab.com  
W: ptglab.com

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

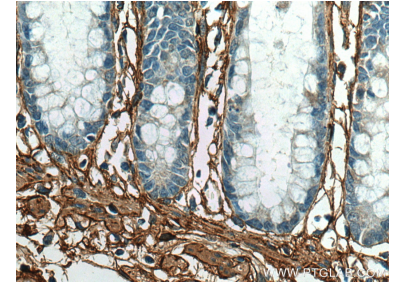
## Selected Validation Data



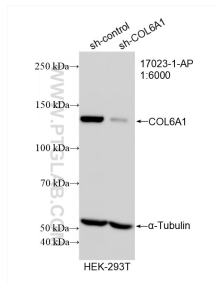
IF result of anti-COL6A1 (17023-1-AP, 1:500) with PFA fixed mouse skeletal muscle tissue by Dr. Daniel Kopinke.



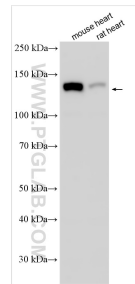
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 17023-1-AP (Collagen Type VI antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



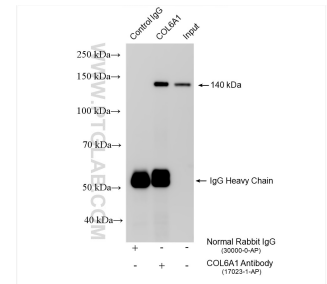
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 17023-1-AP (Collagen Type VI antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



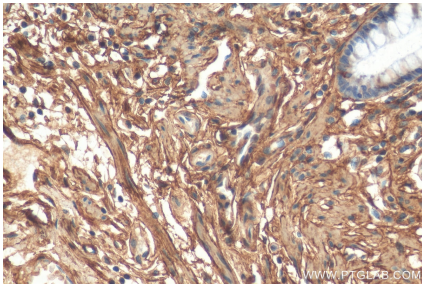
WB result of Collagen Type VI antibody (17023-1-AP; 1:6000); incubated at room temperature for 1.5 hours with sh-Control and sh-Collagen Type VI transfected HEK-293T cells.



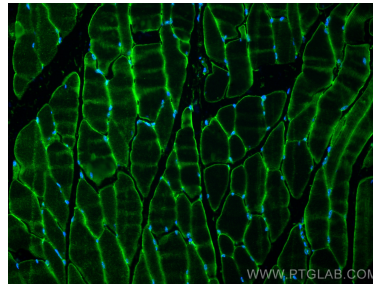
Various lysates were subjected to SDS PAGE followed by western blot with 17023-1-AP (Collagen Type VI antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



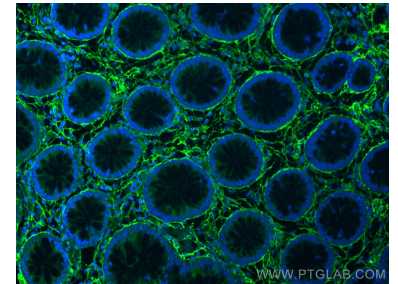
IP result of anti-Collagen Type VI (IP:17023-1-AP, 4ug; Detection:17023-1-AP 1:2000) with mouse heart tissue lysate 1050 ug.



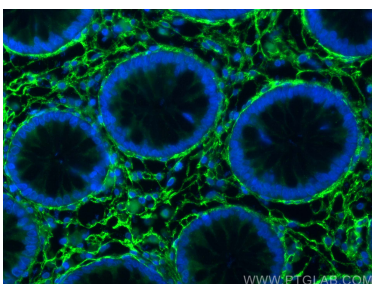
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 17023-1-AP (Collagen Type VI antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skeletal muscle tissue using Collagen Type VI antibody (17023-1-AP) 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).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human colon tissue using Collagen Type VI antibody (17023-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human colon tissue using Collagen Type VI antibody (17023-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).